

SURVEYOR'S OFFICE

Hamilton County

Kenton C. Ward, CFM
Surveyor of Hamilton County
Phone (317) 776-8495
Fax (317) 776-9628

Suite 188
One Hamilton County Square
Noblesville, Indiana 46060-2230

April 25, 2018

To: Hamilton County Drainage Board

Re: Williams Creek Drain, West Rail at the Station Section 2 Arm

Attached is a petition filed by Beazer Homes of Indiana, LLP, along with a non-enforcement request, plans, calculations, quantity summary and assessment roll for the West Rail at the Station Section 2 Arm, Williams Creek Drain to be located in Washington 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 | 952 ft. | 24" RCP | 174 ft. |
| 15" RCP | 381 ft. | 30" RCP | 618 ft. |
| 18" RCP | 154 ft. | 6' SSD | 4,503 ft. |
| 21" RCP | 200 ft. | | |

The total length of the new drain will be 6,982 feet.

With this project, 1063 feet of the Charles Osborn Arm 3 of the William Creek Drain from Sta. 15+91 to Sta. 26+54 shall be vacated. This drain is being replaced by the subdivision storm sewers being installed to drain this area. This will result in a total change of 5,919 being added to the Williams Creek Drain's total length.

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

Curbline SSD in Streets:

Turntable Court
West Rail Drive

Rear Yard SSDs:

Rear yard lots 126 to 127 from Str. 217 to Str. 218
Rear yard lots 128 to 130 from Str. 217 running west to riser
Rear yard lots 131 to 133 from Str. 260 running north to riser
Rear yard lots 134 to 136 from Str. 260 to Str. 259
Rear yard lot 137 from Str. 259 running south to riser
Rear yard lots 170 to 172 from Str. 249 running west to riser
Rear yard lots 173 and 174 from Str. 248 running west to riser
Rear yard lots 147 and 148 from Str. 245 running north to riser
Rear yard lot 149 from Str. 245 running south to riser
Rear yard lots 175 to 177 from Str. 248 to Str. 225
Rear yard lot 180 from Str. 233 to Str. 244
Rear yard lots 181 to 183 from Str. 244 to Str. 245

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 \$2,196.90.

In accordance with IC 36-7-4-709, the petitioner did not submit surety for the proposed drain prior to construction commencing. If the petitioner/developer wants to submit final secondary plat for recording prior to the final inspection and approved as-built drawings, a bond will be required at that time.

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 West Rail at the Station Section 2 as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for July 23, 2018.



Kenton C. Ward, CFM
Hamilton County Surveyor

KCW/pll

STATE OF INDIANA)
)
COUNTY OF HAMILTON)

FILED

APR 27 2018

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 West Rail at the Station Subdivision, Section
Two 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 West Rail at the Station Section Two, a subdivision in Hamilton County, Indiana. The general route of such drainage shall be in existing easements and along public roads as shown in the plans on file in the Surveyor's Office.

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

- (a) improve public health
- (b) benefit a public street
- (c) be of public utility

Petitioner agrees to pay the cost of construction of the drainage system and requests periodic maintenance assessments by the Board thereafter.

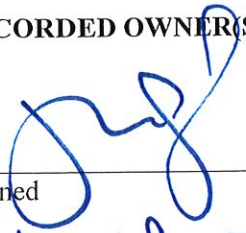
The Petitioner also agrees to the following:

1. To provide the Drainage Board a Performance Bond or Non-Revocable Letter of Credit for the portion of the drainage system which will be made a regulated drain. The bond will be in the amount of 120% of the Engineer's estimate. The bond will be in effect until construction of 100% of the system is completed and so certified by the Engineer.
2. The Petitioner shall retain an Engineer throughout the construction phase. At completion of the project the Petitioner's Engineer shall certify that the drainage system which is to be maintained as a regulated drain has been constructed as per construction plans.
3. The Petitioner agrees to request in writing to the County Surveyor any changes from the approved plan and must receive written authorization from the County Surveyor prior to implementation of the change. All changes shall be documented and given to the Surveyor to be placed in the Drain file.
4. The Petitioner shall instruct his Engineer to provide a reproducible print on a 24" x 36" Mylar of the final design of the Drainage System. This shall be submitted to the County Surveyor prior to the release of the Performance Bond.
5. The Petitioner shall comply with the Erosion Control Plan as specified on the construction plans. Failure to comply with the Erosion Control Plan shall be determined by the Board as being an obstruction to the drainage system. The County Surveyor shall immediately install or repair the needed measures at Petitioners cost as per IC 36-9-27-46.

The Petitioner further requests that the Drain be classified as an Urban Drain as per IC 36-9-27-69(d).

RECORDED OWNER(S) OF LAND INVOLVED

Signed



Printed Name

RYAN SMITH

Date

4/25/12

Signed

Printed Name

Date

Signed

Printed Name

Date

Signed

Printed Name

Date



Sec. 2
W.C.

FINDINGS AND ORDER

CONCERNING THE PARTIAL VACATION OF THE

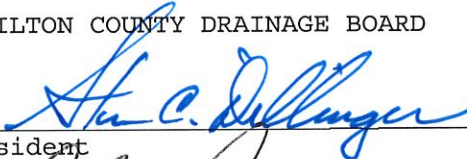
Williams Creek Drain, Charles Osborn Arm 3
West Rail at the Station Section 2 Arm

Station 15+91 to Station 26+54

On this 23rd day of July, 2018, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the Williams Creek Drain, Charles Osborn Arm 3, West Rail at the Station Section 2 Arm (Station 15+91 to Station 26+54).

Evidence has been heard. Objections were presented and considered. The Board then adopted an order of action. The Board now finds that the costs of continued maintenance to the portion of the above drain exceed the benefits to the real estate benefited by the portion of the drain to be abandoned and issues this order vacating the above section of the Williams Creek Drain, Charles Osborn Arm 3, West Rail at the Station Section 2 Arm (Station 15+91 to Station 26+54).

HAMILTON COUNTY DRAINAGE BOARD



President



Member



Member

Attest:



FINDINGS AND ORDER

CONCERNING THE MAINTENANCE OF THE

Williams Creek Drain,
West Rail at the Station Section 2 Arm


On this 23rd day of July, 2018, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the *Williams Creek Drain, West Rail at the Station Section 2 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

ENGINEER'S ESTIMATE OF PROBABLE COST

Project: West Rail @ the Station - Section 2
W150389-2

Date: 5/23/2018

STORM SEWERS

| | | | Quantity | Unit Price | Gross Price |
|------------|------------------------------|------|----------|-------------|--------------|
| Structures | Small Manhole | EA | 1 | \$ 1,952.00 | \$ 1,952.00 |
| | Large Manhole | EA | | | \$ - |
| | Small Beehive Inlet | EA | 10 | \$ 1,770.00 | \$ 17,700.00 |
| | Large Beehive Inlet | EA | | | \$ - |
| | Small Single Curb Inlet | EA | 14 | \$ 2,055.00 | \$ 28,770.00 |
| | 24" End Section | EA | 1 | \$ 1,336.00 | \$ 1,336.00 |
| | 30" End Section | EA | 1 | \$ 1,626.00 | \$ 1,626.00 |
| | Large Single Curb Inlet | EA | | | \$ - |
| | 6" Subsurface Drain - Curbs | LF | 3450 | \$ 9.20 | \$ 31,740.00 |
| | 6" Subsurface Drain - Swales | LF | 3000 | \$ 9.20 | \$ 27,600.00 |
| | SSD Risers | EA | 16 | \$ 269.50 | \$ 4,312.00 |
| | Lot Leads | EA | 38 | \$ 99.00 | \$ 3,762.00 |
| | Granular Backfill | TONS | 230 | \$ 20.50 | \$ 4,715.00 |
| | Stone Bedding | TONS | 740 | \$ 21.50 | \$ 15,910.00 |
| Rip-Rap | TONS | 50 | \$ 40.00 | \$ 2,000.00 | |

| | Qty | Measurement | Size | Material | Unit Price | Gross Price |
|------|------|----------------|------|----------|---------------------------|----------------------|
| Pipe | 1306 | Linear feet of | 12" | RCP | \$ 19.00 | \$ 24,814.00 |
| | 492 | Linear feet of | 15" | RCP | \$ 23.10 | \$ 11,365.20 |
| | 660 | Linear feet of | 18" | RCP | \$ 27.40 | \$ 18,084.00 |
| | 200 | Linear feet of | 21" | RCP | \$ 32.25 | \$ 6,450.00 |
| | 241 | Linear feet of | 24" | RCP | \$ 37.10 | \$ 8,941.10 |
| | 618 | Linear feet of | 30" | RCP | \$ 49.00 | \$ 30,282.00 |
| | | | | | STORM SEWER TOTAL: | \$ 241,359.30 |

EROSION CONTROL

| | | | Quantity | Unit Price | Gross Price | |
|---------|----------------------------------|----|----------|------------|------------------------------|---------------------|
| Seeding | Curb Inlet Basket | EA | 16.0 | \$ 145.00 | \$ 2,320.00 | |
| | Beehive Protection | EA | 17.0 | \$ 80.00 | \$ 1,360.00 | |
| | Silt Fence - Perimeter | LF | 6,727 | \$ 1.15 | \$ 7,736.05 | |
| | Seed & Straw behind Curb | SF | 120,897 | \$ 0.04 | \$ 4,835.88 | |
| | EC Blanket w/ Perm Seed - Lake | SF | 32,402 | \$ 0.14 | \$ 4,536.28 | |
| | EC Blanket w/ Perm Seed - Swales | SF | 90,965 | \$ 0.13 | \$ 11,825.45 | |
| | Permanent Seeding | SF | 14,269 | \$ 0.04 | \$ 570.76 | |
| | Temporary Seed w/ Mulch | SF | 924,524 | \$ 0.03 | \$ 27,735.72 | |
| | | | | | EROSION CONTROL TOTAL | \$ 60,920.14 |

MONUMENTATION

| | | | Quantity | Unit Price | Gross Price | |
|-------|-------------------------------|-----|----------|------------|----------------------------|--------------------|
| Misc. | Monumentaion & Street Control | EA | 13 | \$ 164.00 | \$ 2,132.00 | |
| | Property Corners | LOT | 42 | \$ 100.00 | \$ 4,200.00 | |
| | | | | | MONUMENTATION TOTAL | \$ 6,332.00 |

SUMMARY

| | Total | Performance Guarantee | Maintenance Guarantee |
|-----------------|----------------------|-----------------------|-----------------------|
| Storm Sewers | \$ 241,359.30 | \$ 289,631.16 | N/A |
| Erosion Control | \$ 60,920.14 | \$ 73,104.17 | N/A |
| Monumentation | \$ 6,332.00 | \$ 7,598.40 | N/A |
| | \$ 308,611.44 | \$ 370,333.73 | |

COMMENTS:

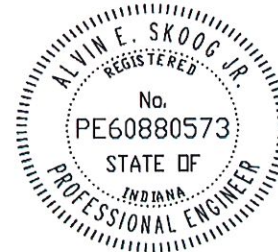
Bond Estimate Prepared by:

Signature: Alvin E. Skoog, Jr.

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

Title: Sr. Project Manager

Date: 23-May-18



BEFORE THE HAMILTON COUNTY DRAINAGE BOARD
IN THE MATTER OF

*Williams Creek Drain,
West Rail at the Station Section 2 Arm*

NOTICE

To Whom It May Concern and: _____

Notice is hereby given of the hearing of the Hamilton County Drainage Board on the **Williams Creek Drain, West Rail at the Station Section 2 Arm** on **July 23, 2018** at **9:00 A.M.** in Commissioners Court, Hamilton County Judicial Center, One Hamilton County Square, Noblesville, Indiana, and which construction and maintenance reports of the Surveyor and the Schedule of Assessments made by the Drainage Board have been filed and are available for public inspection in the office of the Hamilton County Surveyor.

Hamilton County Drainage Board

Attest: Lynette Mosbaugh

ONE TIME ONLY

BEFORE THE HAMILTON COUNTY DRAINAGE BOARD
IN THE MATTER OF THE

Williams Creek Drain, West Rail at the Station Section 2

NOTICE

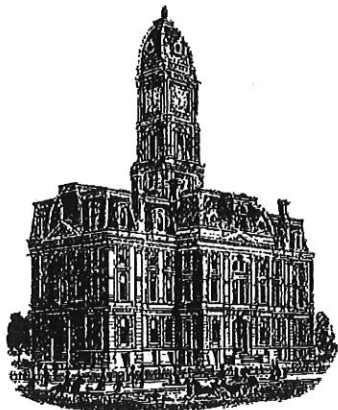
Notice is hereby given pursuant to Section 405 of the 1965 Indiana Drainage Code that this Board, prior to final adjournment on **July 23, 2018** has issued an order adopting the Schedule of Assessments, filed the same and made public announcement thereof at the hearing and ordered publication. If judicial review of the findings and order of the Board is not requested pursuant to Article Eight of this code within twenty (20) days from the date of this publication, the order shall be conclusive.

Hamilton County Drainage Board

Attest: Lynette Mosbaugh

ONE TIME ONLY

KCW



SURVEYOR'S OFFICE
Hamilton County

Kenton C. Ward, CFM
Surveyor of Hamilton County
Phone (317) 776-8495
Fax (317) 776-9628

Suite 188
One Hamilton County Square
Noblesville, Indiana 46060-2230

To: Hamilton County Drainage Board

July 29, 2020


Re: Williams Creek Drain: West Rail at the Station Section 2 Arm

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

During construction, changes were made to the drain, which will alter the plans submitted with my report for this drain-dated April 25, 2018. The report was approved by the Board at the hearing held July 23, 2018. (See Drainage Board Minutes Book 18, Pages 219-220) The changes are as follows: the 12" RCP was lengthened from 952 feet to 958 feet. The 15" RCP was lengthened from 381 feet to 389 feet. The 18" RCP was shortened from 154 feet to 152 feet. The 24" RCP was lengthened from 174 ft to 175 feet. The 30" RCP was shortened from 618 feet to 613 feet. The length of the drain due to the changes described above is now **6,990 feet**. It should also be noted that this project removed 1063 feet of the Charles Osborn Arm 3 drain.

The non-enforcement was approved by the Board at its meeting on July 23, 2018 and recorded under instrument #2020005202. Sureties were not provided in accordance with IC 36-7-4-709.

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: WEST RAIL AT THE STATION SECTION 2

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: Joseph Trtan Date: 7/15/2019

Type or Print Name: JOSEPH TRTAN

Business Address: 10505 NORTH COLLEGE AVENUE
INDIANAPOLIS, IN 46280

Telephone Number: 317-846-6611



INDIANA REGISTRATION NUMBER

LS 21500003

RECORD DRAWING

CONSTRUCTION PLANS FOR WEST RAIL AT THE STATION

SECTION TWO

A SUBDIVISION IN WESTFIELD, INDIANA

PART OF SW 1/4, SEC 10, T18N, R3E

HAMILTON COUNTY

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: 2020

Entered By: SLM

ALL CONTRACTORS SHALL REVIEW CITY OF WESTFIELD STANDARDS AND SPECIFICATIONS PRIOR TO BIDDING ON THE PROJECT. ADDITIONAL SPECIFICATIONS, NOT INCLUDED IN THIS SET OF PLANS, MAY BE REQUIRED. STANDARDS CAN BE FOUND AT: www.westfield.in.gov/egoc/apps/document/center.egov?view=item;id=50

DESIGN DATA
 LOTS = 42
 ACRES = 20.662± AC.
 DENSITY = 2.03 LOTS/ACRE

PLANS PREPARED BY:
 Weihe Engineers, Inc.
 10505 N. College Ave.
 Indianapolis, Indiana 46280
 Telephone: (317) 846-6611
 Fax: (317) 843-0546
 Contact Person: Alvin E. Skoog, PE PS
 Email: skoog@weihe.com

DEVELOPER:
 Beazer Homes of Indiana, LLP
 9405 Delegates Row
 Indianapolis, IN 46240
 Chad Oldham 317-574-1950
 Email: chad.oldham@beazer.com

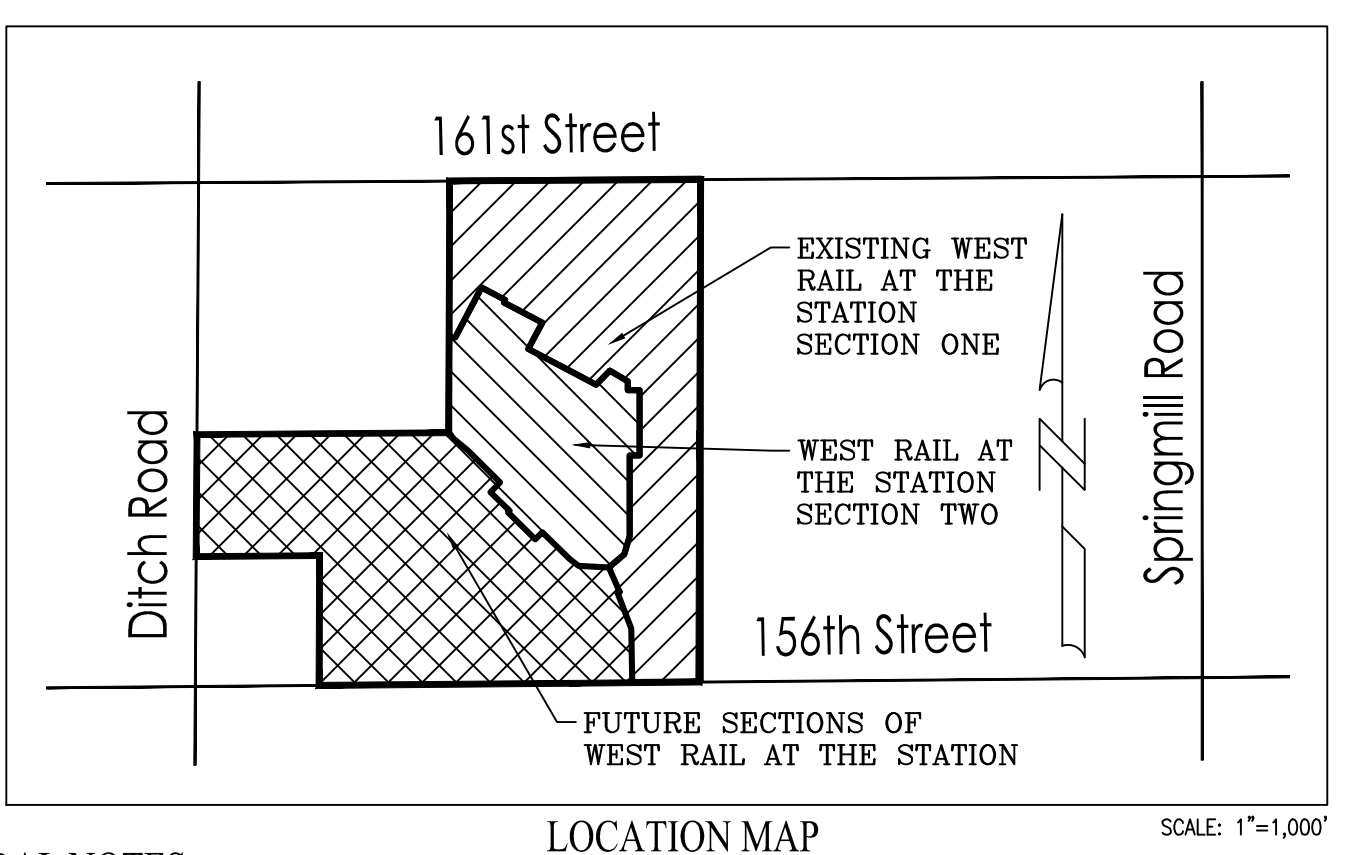


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Within Indiana Call
 811 or 800-382-5544
 24 Hours a Day, 7 Days a Week.

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.

| SHEET INDEX | |
|----------------------|---|
| SHEET NO. | DESCRIPTION |
| C001 | COVER SHEET |
| C100-C102 | EXISTING CONDITIONS DEMOLITION PLAN |
| C200-C202 | PRE-STORMWATER POLLUTION PREVENTION PLAN |
| C203-C205 | POST-STORMWATER POLLUTION PREVENTION PLAN |
| C206-C207 | STORMWATER POLLUTION PREVENTION DETAILS & SPEGS |
| C300-C301 | DEVELOPMENT PLAN |
| C302 | OFFSITE DEVELOPMENT PLAN |
| C303-C304 | SITE DIMENSION PLAN |
| C400-C401 | STREET PLAN & PROFILE |
| C402 | CUL-DE-SAC DETAILS |
| C403-C405 | STREET DETAILS AND SPECIFICATIONS |
| C406-C407 | TRAFFIC CONTROL/SIGNAGE/STREET LIGHT/SUMP PLAN |
| C500 | SANITARY SEWER FORCEMAIN PLAN & PROFILE |
| C501-C502 | SANITARY SEWER PLAN & PROFILE |
| C503-C505 | SANITARY SEWER DETAILS |
| C600-C602 | STORM SEWER PLAN & PROFILES |
| C603-C604 | STORM SEWER DETAILS |
| C605 | STORM SEWER SPECIFICATIONS |
| C700-C701 | WATER MAIN PLAN |
| C702-C703 | WATER MAIN DETAILS |
| C800 | GENERAL SPECIFICATIONS |
| C801 | BUCKEYE PIPELINE RIGHT-OF-WAY RESTRICTIONS & DETAILS |
| 1-2 | LANDSCAPE PLANS |
| 3-4 | LANDSCAPE DETAILS & SPECIFICATIONS |



- 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 CONTRACTOR'S 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 CONTRACTOR'S RESPONSIBILITY TO NOTIFY AND COORDINATE CONSTRUCTION WITH ALL RESPECTIVE UTILITIES.
 - ALL QUANTITIES GIVEN ON THESE PRINTS, 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 CFR PART 1926, SUBPART "P" APPLIES TO ALL EXCAVATIONS EXCEEDING FIVE (5) FEET IN DEPTH.
 - EXCAVATIONS 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.
 - 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 #18057C0120G, DATE NOVEMBER 19, 2014.
 - BEARINGS, DIMENSIONS AND EASEMENTS ARE SHOWN FOR REFERENCE ONLY. SEE RECORD SURVEYS & PLAT FOR EXACT INFORMATION.
 - THE SITE DOES NOT CONTAIN WETLANDS AS ESTABLISHED BY THE U.S. DEPARTMENT OF THE INTERIOR FISH AND WILDLIFE SERVICE; WESTFIELD, INDIANA, NATIONAL WETLANDS INVENTORY MAP DATED 1989.
 - ALL PAVING WITHIN THE EXISTING AND PROPOSED CITY RIGHT OF WAY SHALL CONFORM TO THE REQUIREMENTS OF THE DEPARTMENT OF PUBLIC WORKS. CONTRACTOR SHALL CONTACT THE DEPARTMENT OF PUBLIC WORKS 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 RIGHTS OF WAY.
 - IF IT WILL BE NECESSARY TO RELOCATE EXISTING UTILITIES DUE TO A CONFLICT, THE EXPENSE OF SUCH RELOCATION SHALL BE THE RESPONSIBILITY OF THE DEVELOPER. ALL UTILITY POLES SHALL BE LOCATED WITHIN ONE FOOT OF THE PROPOSED RIGHT-OF-WAY, OUTSIDE THE RIGHT-OF-WAY.

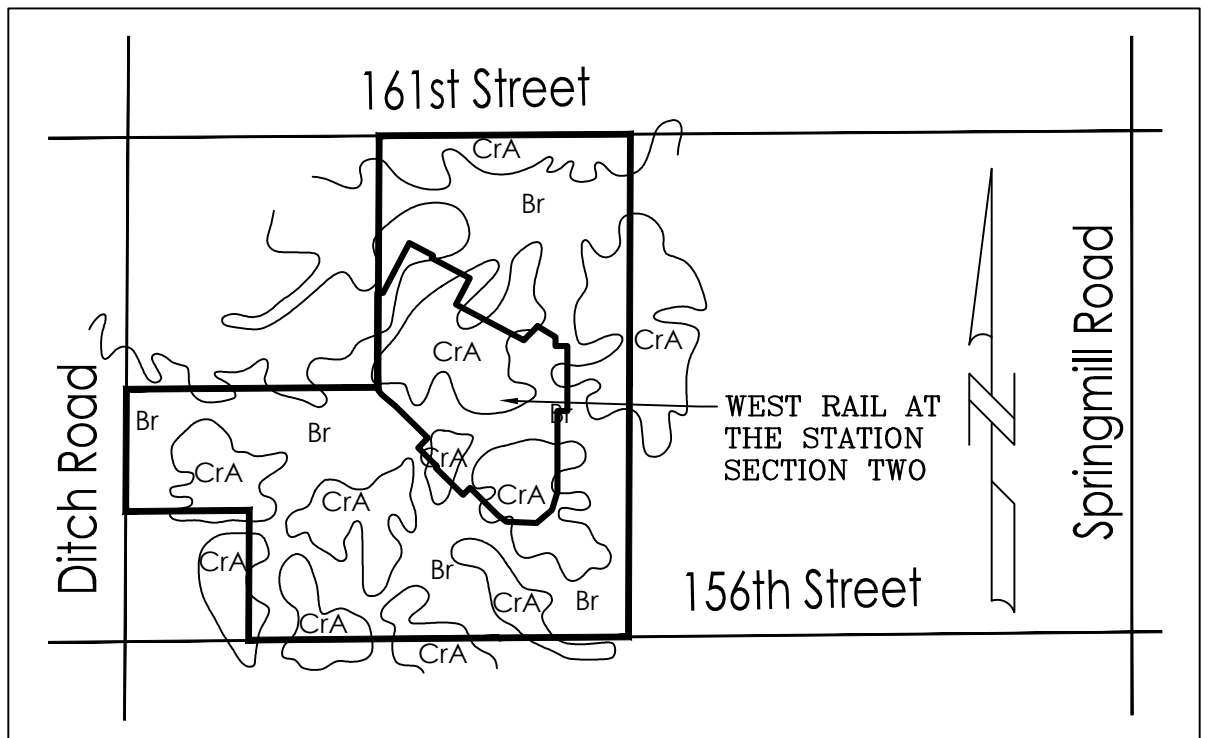
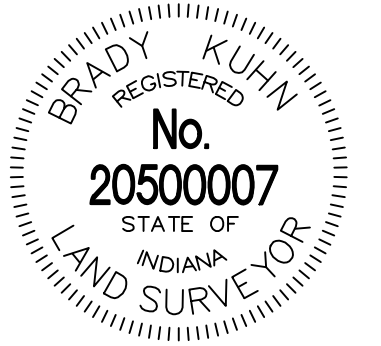
- BENCHMARK INFORMATION**
- BM - A DNR BRASS DISK SET IN THE TOP OF A CONCRETE POST, LEVEL WITH THE GROUND, STAMPED "HAM 41" LOCATED APPROXIMATELY 1,334 FEET WEST OF THE CENTERLINE OF DITCH ROAD AND ABOUT 14 FEET NORTH OF THE CENTERLINE OF 156TH STREET. STATE PLANE COORDINATES: N1736106.52 E181985.25 ELEV. = 917.54 NAVD 88
- T.B.M. 1 - "Wag" NAIL ON NORTH SIDE OF POWER POLE, 1.0 FT. UP, 509 FEET WEST OF CENTERLINE OF DECLARATION DRIVE AND 37 FEET SOUTH OF CENTERLINE OF 156TH STREET. ELEV. = 914.94 NAVD 88
- T.B.M. 2 - RAILROAD SPIKE ON NORTH SIDE OF POWER POLE, 0.9 FT. UP, 96 FEET WEST OF CENTERLINE OF DECLARATION DRIVE AND 40 FEET SOUTH OF CENTERLINE OF 156TH STREET. ELEV. = 914.05 NAVD 88
- T.B.M. 3 - RAILROAD SPIKE ON NORTH SIDE OF POWER POLE, 1.3 FT. UP, 670 FEET WEST OF CENTERLINE OF HADLEIGH PASS AND 14 FEET SOUTH OF CENTERLINE OF 161ST STREET. ELEV. = 914.63 NAVD 88
- T.B.M. 4 - RAILROAD SPIKE ON EAST SIDE OF POWER POLE, 1.0 FT. UP, 233 FEET EAST OF CENTERLINE OF HADLEIGH PASS DRIVE AND 18 FEET SOUTH OF CENTERLINE OF 161ST STREET. ELEV. = 914.32 NAVD 88
- T.B.M. 5 - NORTHEAST BONNET FLANGE BOLT FIRE HYDRANT, 56 FEET EAST OF CENTERLINE OF DITCH ROAD AND 678 FEET NORTH OF CENTERLINE OF 156TH STREET. ELEV. = 916.12 NAVD 88

THE PRESENCE OF A CITY OF WESTFIELD REVIEW AND ACCEPTANCE STAMP ON PLANS DOES NOT RELIEVE THE CONTRACTOR OR DEVELOPER FROM COMPLIANCE WITH THE "CITY OF WESTFIELD CONSTRUCTION STANDARDS, LATEST EDITION". THIS REVIEW ONLY DESIGNATES THAT THE GENERAL CONFORMANCE WITH THE DESIGN AND SPECIFICATIONS HAVE BEEN MET. FIELD CHANGES MAY BECOME NECESSARY IN ORDER TO COMPLY WITH THE DETAILED CITY OF WESTFIELD SPECIFICATIONS.

OPERATING AUTHORITIES:

- | | | |
|---|---|--|
| CITY OF WESTFIELD COMMUNITY DEVELOPMENT ATTENTION: AMANDA RUBADUE 2728 EAST 171ST STREET WESTFIELD, IN 46074 317-804-3172 | WESTFIELD PRE-CONSTRUCTION ATTENTION: JOHN RANKIN 2706 E. 171ST STREET WESTFIELD, INDIANA 46074 317-450-0923 | WESTFIELD G.I.S. ATTENTION: LEANE KMETZ 2706 E. 171ST STREET WESTFIELD, INDIANA 46074 317-804-3001 |
| HAMILTON COUNTY HEALTH DEPT. ATTENTION: LARRY BEARD 18030 FOUNDATION DRIVE, SUITE A NOBLESVILLE, IN 46060-2229 317-776-8500 | MARATHON PIPELINE COMPANY, LLC ATTENTION: AUSTIN GUYER 10722 EAST COUNTY ROAD 300 NORTH INDIANAPOLIS, IN 46234 317-291-9460 | CITIZENS GAS OF WESTFIELD ATTENTION: RICHARD MILLER, JR. 2150 DR. MARTIN LUTHER KING DRIVE INDIANAPOLIS, IN 46202-1162 317-696-4041 |
| HAMILTON COUNTY HIGHWAY DEPT. ATTENTION: DAVE LUCAS 1700 SOUTH 10TH STREET NOBLESVILLE, IN 46060 317-773-7770 | AT&T (TELEPHONE) ATTENTION: STEVE KREBS 5858 NORTH COLLEGE AVENUE INDIANAPOLIS, IN 46220 317-252-4007 | CITIZENS WATER AND WASTEWATER OF WESTFIELD, LLC 2150 DR. MARTIN LUTHER KING JR. STREET INDIANAPOLIS, IN 46202 CONTACT: BRAD HOSTETLER 317-927-4351 |
| BUCKEYE PARTNERS, L.P. ATTENTION: KYLE SMITH 5404 W. 96TH STREET INDIANAPOLIS, IN 46268 317-870-0122 | WESTFIELD FIRE DEPARTMENT ATTENTION: GARRY HARLING 17535 DARTOWN ROAD WESTFIELD, INDIANA 46074 317-896-2704 | WESTFIELD-WASHINGTON SCHOOL CORP. ATTENTION: NICK VERROFF 322 W. MAIN STREET WESTFIELD, INDIANA 46074 317-867-8013 |
| HAMILTON COUNTY SURVEYOR'S OFFICE ATTENTION: GREG HOYES 1 HAMILTON COUNTY SQUARE, STE. 146 NOBLESVILLE, IN 46060 317-776-9626 | METRONET ATTENTION: CHRIS BLUTO 3701 COMMUNICATIONS WAY EVANSVILLE, IN 47715 317-465-1046 | COMCAST CABLE ATTENTION: MATT STRINGER 533 EAST 65TH STREET INDIANAPOLIS, IN 46204 317-774-3384 |
| | | DUKE ENERGY (ELECTRIC) ATTENTION: JESSI HERRINGTON 100 SOUTH MILLCREEK DRIVE NOBLESVILLE, IN 46062 317-776-5365 |

RECORD DRAWING
 7/11/2019
 BRADY KUHN, L.S. 20500007

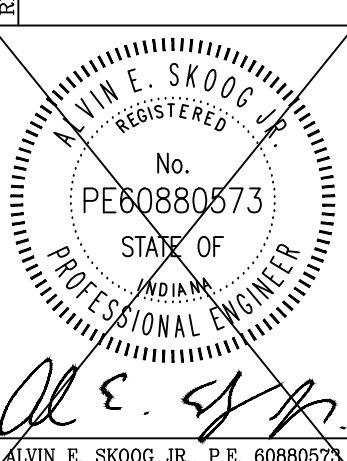


- SOILS MAP SOILS TYPE LEGEND**
- BROOKSTON SILTY CLAY LOAM- Br
 CROSBY SILT LOAM, 0 TO 2% SLOPES C/A
- THIS SOIL IS DARK GREYISH BROWN, SILTY IN TEXTURE. IT IS DEEP AND VERY POORLY DRAINED WITH MODERATE PERMEABILITY. IT HAS HIGH AVAILABLE WATER FOR PLANT GROWTH AND HIGH ORGANIC MATTER CONTENT. IT HAS COMPACT TILL STARTING AT A DEPTH OF 40 TO 60 INCHES. THE MAIN SOIL FEATURES THAT AFFECT THE URBAN DEVELOPMENT USES ARE SEASONAL HIGH WATER TABLE, HIGH POTENTIAL FROST ACTION, MODERATE SHRINK-SWELL POTENTIAL, MODERATE PERMEABILITY AND PONDED SURFACE WATER.
 - BECAUSE OF THESE ENGINEERING LIMITATIONS THIS SITE WILL BE CONSTRUCTED AS FOLLOWS. WEST RAIL AT THE STATION SECTION TWO, BEING A SINGLE FAMILY DEVELOPMENT WITHIN THE JURISDICTION OF THE TOWN OF WESTFIELD AND HAMILTON COUNTY WILL HAVE TO ABIDE BY THE APPLICABLE ORDINANCE. SPECIAL CONSIDERATIONS WILL HAVE TO BE IMPLEMENTED TO REDUCE FAILURE OF CONSTRUCTION. ALL BUILDINGS WILL BE OF LARGE SLAB TYPE CONSTRUCTION. BASEMENTS SHOULD BE AVOIDED. IN CASES WHERE A HIGH WATER TABLE IS PRESENT SPECIAL FOOTINGS SHALL BE CONSTRUCTED. ALL ROADS WILL HAVE ADEQUATE SUB-BASE, THE BASE MATERIAL WILL BE REPLACED OR STRENGTHENED WITH SUITABLE MATERIAL. ALL SANITARY SEWERS SHALL BE PUBLIC AND THEREFORE NO SEPTIC SYSTEMS SHALL BE ALLOWED.
- CROSBY SILT LOAM, 0-3 PERCENT SLOPES-
- THIS SOIL IS DARK GRAYISH BROWN SILT LOAM ABOUT 8" THICK, SILTY IN TEXTURE AND ON LOCATED ON SLIGHT RISES ON BROAD, UNUNDULATING TILL PLAINS. IT IS DEEP AND SOMEWHAT POORLY DRAINED WITH SLOW PERMEABILITY. IT HAS HIGH AVAILABLE WATER FOR PLANT GROWTH AND MEDIUM ORGANIC MATTER CONTENT. THE SOIL HAS COMPACT TILL STARTING AT A DEPTH BETWEEN 20-40 INCHES. THE MAIN SOIL FEATURE THAT AFFECT URBAN DEVELOPMENT USES ARE SEASONAL HIGH WATER TABLE, MODERATE SHRINK SWELL POTENTIAL, HIGH POTENTIAL FROST ACTION AND SLOW PERMEABILITY.
 - BECAUSE OF THESE ENGINEERING LIMITATIONS THIS SITE WILL BE CONSTRUCTED AS FOLLOWS. WEST RAIL AT THE STATION SECTION TWO, BEING A SINGLE FAMILY DEVELOPMENT WITHIN THE JURISDICTION OF THE TOWN OF WESTFIELD AND HAMILTON COUNTY WILL HAVE TO ABIDE BY THE APPLICABLE ORDINANCE. SPECIAL CONSIDERATIONS WILL HAVE TO BE IMPLEMENTED TO REDUCE FAILURE OF CONSTRUCTION. ALL BUILDINGS WILL BE OF LARGE SLAB TYPE CONSTRUCTION. IN CASES WHERE A HIGH WATER TABLE IS PRESENT SPECIAL FOOTINGS SHALL BE CONSTRUCTED. ALL ROADS WILL HAVE ADEQUATE SUB-BASE, THE BASE MATERIAL WILL BE REPLACED OR STRENGTHENED WITH SUITABLE MATERIAL. ALL SANITARY SEWERS SHALL BE PUBLIC AND THEREFORE NO SEPTIC SYSTEMS SHALL BE ALLOWED.

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.: W150389-2
 DWG NAME: C001.DWG
 DESIGNER: SLM
 DRAWN BY: SLM
 CHECKED BY: SLM
 DATE: 07-10-2018



PREPARED FOR:
WEST RAIL AT THE STATION, SECTION TWO
 Beazer Homes Indiana, LLP
 156TH STREET & DITCH ROAD, WESTFIELD, IN

COVER SHEET

Part of Section 10, Township 18 North, Range 3 East, Washington Township, Hamilton County, Indiana

SHEET NO.
C001
 PROJECT NO.
 W150389-2

LOCATION: W:\2018\W150389\Section 2\Engineering\Setup\Subarea\Map\Cover_Sheet.dwg
 DATE/TIME: July 12, 2019 - 2:43pm
 PLOTTED BY: wehner

NOTES:

- CONTRACTOR TO INSTALL CONCRETE CRADLES WHEN THE VERTICAL SEPARATION (AS MEASURED FROM THE EXTERIOR OF THE PIPES) BETWEEN SANITARY SEWER FACILITIES, WATER MAIN, AND STORM SEWERS IS 18" OR LESS.
- GRANULAR BACKFILL TO BE USED FOR ALL UTILITY AND SEWER TRENCHES CROSSING STREET RIGHT-OF-WAY.
- PIPE CROSSINGS SHALL BE TYPE "B" BORROW. TYPE "B" BORROW SHALL MEET 1/2" OR GREATER NORMAL SIZE.
- ALL PROPOSED CURB TO BE TYPE 1 ROLL CURB. (FOR DETAIL SEE SHT. #C406), UNLESS OTHERWISE NOTED.
- ALL CLEANING AND TELEVISION (STORM, SSD, SANITARY) SHALL BE PERFORMED AFTER ALL UNDERGROUND UTILITIES ARE INSTALLED. THIS INCLUDES GAS, POWER AND CABLE.
- ALL 6" SSD IN SWALES UNDER 2% SLOPE SHALL BE DOUBLE WALL-SMOOTH WALL PERFORATED PLASTIC PIPE AS SHOWN ON H.C.S.O. DETAIL D-16 ON SHEET C606.

LANDSCAPING NOTES:

- ALL STREET TREES ARE TO MATCH THE CURRENT CITY OF WESTFIELD MASTER TREE LIST.
- STREET TREES SHALL NOT BE WITHIN 4 FEET OF ANY PAVEMENT.
- TREES SHALL BE NO TREES WITHIN 10 FEET OF ANY STORM SEWER PIPE INCLUDING SSD (EXCEPT FOR REQUIRED STREET TREES).
- NO LANDSCAPING IS PERMITTED WITHIN DRAINAGE EASEMENTS THAT HAVE STORM SEWER PIPE INCLUDING SSD.
- STORM SEWERS ARE NOT ALLOWED IN LANDSCAPE EASEMENTS.
- SEE LANDSCAPE PLANS (BY OTHERS) FOR MORE INFORMATION.

NOTE:

CONTRACTOR TO CONTACT BUCKEYE PIPELINE COMPANY AND/OR MARATHON PIPELINE COMPANY PRIOR TO ANY WORK WITHIN THE VICINITY OF THEIR PIPELINES AND EASEMENTS DENOTED ON THE PLANS.

CONTACTS:

BUCKEYE PARTNERS, LP
5404 W. 96TH STREET
INDIANAPOLIS, IN 46268
ATTN: KYLE SMITH
317-870-0122

MARATHON PIPELINE COMPANY, LLC
10722 EAST COMPANY ROAD 300 NORTH
INDIANAPOLIS, IN 46234
ATTN: AUSTIN GUYER
317-291-9460

LEGEND

| | | | |
|--|---|--|---|
| | RIGHT-OF-WAY LINE | | PROPOSED WATER LINE |
| | STORM SEWER LINE | | SANITARY SEWER LINE |
| | SWALE | | SANITARY SEWER MANHOLE |
| | SSD | | SANITARY SEWER LATERAL |
| | SANITARY SEWER LINE | | PROPOSED WATER LINE |
| | SANITARY SEWER MANHOLE | | FLOW DIRECTION |
| | SANITARY SEWER LATERAL | | EXISTING CONTOURS |
| | PROPOSED WATER LINE | | PROPOSED ELEVATION |
| | FLOW DIRECTION | | STORM BEEHIVE INLET |
| | EXISTING CONTOURS | | STORM INLET |
| | PROPOSED ELEVATION | | TOP OF CASTING |
| | STORM BEEHIVE INLET | | INVERT |
| | STORM INLET | | REINFORCED CONCRETE PIPE |
| | TOP OF CASTING | | MANHOLE |
| | INVERT | | STRUCTURE |
| | REINFORCED CONCRETE PIPE | | DRAINAGE EASEMENT |
| | MANHOLE | | DRAINAGE AND UTILITY EASEMENT |
| | STRUCTURE | | DRAINAGE, UTILITY AND SANITARY SEWER EASEMENT |
| | DRAINAGE EASEMENT | | CONCRETE END SECTION |
| | DRAINAGE AND UTILITY EASEMENT | | MATCH EXISTING |
| | DRAINAGE, UTILITY AND SANITARY SEWER EASEMENT | | HPPPP |
| | CONCRETE END SECTION | | TYP. PROPOSED |
| | MATCH EXISTING | | EXISTING |
| | HPPPP | | VARIABLE WIDTH |
| | | | MINIMUM LOWEST ADJACENT GRADE |
| | | | RIGHT-OF-WAY |
| | | | BACK OF CURB |
| | | | PAD ELEV |
| | | | EMERGENCY FLOOD ROUTE |
| | | | BUILDING SETBACK LINE |
| | | | HIGH POINT |
| | | | ADA RAMP |
| | | | FIRE HYDRANT |
| | | | PROPOSED 8' ASPHALT PATH |
| | | | STREET LIGHT |

GENERAL GRADING NOTES:

- REFER TO THE INDIANA DEPARTMENT OF TRANSPORTATION (INDOT) STANDARD SPECIFICATIONS, LATEST EDITION, FOR BASIC MATERIALS AND CONSTRUCTION METHODS. THE SECTIONS BELOW FOR VARIOUS ITEMS ARE TO CLARIFY THE INTENT OF THE REQUIREMENTS FOR THIS PROJECT. PLEASE NOTE THAT OTHER SECTIONS OF THE INDOT STANDARD SPECIFICATIONS MAY ALSO BE APPLICABLE.
- FILL MATERIAL SHALL CONSIST OF EARTH OBTAINED FROM CUT AREAS, BORROW PITS OR OTHER APPROVED SOURCES. EARTH SHALL BE FREE FROM ORGANIC MATTER AND OTHER DELETERIOUS SUBSTANCES AND LARGE ROCKS. THE FILL MATERIAL SHALL BE PLACED IN LAYERS NOT TO EXCEED SIX INCHES FOLLOWING COMPACTION. PROPER MOISTURE CONTENT OF FILL MATERIAL SHALL BE SUCH TO ACHIEVE SPECIFIED COMPACTION DENSITY. ALL FILL BENEATH PAVED AREAS FLOOR SLABS SHALL BE COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY PER ASTM D-1557. FIELD COMPACTING TESTS SHALL BE RUN ON EACH LIFT, IN FILL SECTIONS, AND THE REQUIRED COMPACTION ON EACH LIFT SHALL BE IN ACCORDANCE WITH INDOT SECTION 211.
- MAXIMUM LAWN SLOPE IS 3:1.
- THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES TO LOCATE MAINS, CONDUITS, SERVICE LINES, ETC. IN THE AFFECTED CONSTRUCTION AREA. EXISTING UTILITY STRUCTURES ARE SHOWN HERE IN ACCORDANCE WITH AVAILABLE INFORMATION. THE LOCATION AND PROTECTION OF UTILITY STRUCTURES, THEIR SUPPORT AND MAINTENANCE DURING CONSTRUCTION (IN COOPERATION WITH APPLICABLE UTILITY COMPANY) IS THE EXPRESSED RESPONSIBILITY OF THE CONTRACTOR.
- ALL SPOT ELEVATIONS ARE TO FINISHED GRADE.
- COMPACTED "B" BORROW BACK FILL REQ'D. OVER ALL UTILITIES IN PAVED AREAS OR WITHIN 5FT. OF PAVED AREAS.
- ALL GRADES AT BOUNDARY SHALL MEET EXISTING.
- ANY PART OF SANITARY OR STORM SEWER TRENCHES RUNNING UNDER OR WITHIN 5' OF PAVEMENT TO BE BACKFILLED WITH GRANULAR MATERIAL.
- ALL CONSTRUCTION ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH O.S.H.A. STANDARDS FOR WORKER SAFETY.
- THE CONTRACTOR SHALL CONFIRM ALL EARTHWORK QUANTITIES PRIOR TO THE START OF CONSTRUCTION. IF AN EXCESS OR SHORTAGE OF EARTH IS ENCOUNTERED, THE CONTRACTOR SHALL CONFIRM WITH THE OWNER AND ENGINEER THE REQUIREMENTS FOR STOCKPILING, REMOVING OR IMPORTING OF EARTH.
- PROVIDE POSITIVE DRAINAGE WITHOUT PONDING IN ALL AREAS AFTER INSTALLATION. CONTRACTOR TO TEST FOR AND CORRECT ANY PONDING CONDITIONS.
- FOR SANITARY SEWER AND WATER SPECIFICATIONS SEE CITIZENS WATER AND WASTEWATER SPECIFICATIONS AND STANDARDS FOR THE WESTFIELD SERVICE TERRITORY EFFECTIVE FEBRUARY 1, 2015.

STORM SEWER STRUCTURE DATA TABLE

| STRUCTURE NUMBER | STRUCTURE TYPE | TOP OF CASTING | CASTING TYPE | INVERT |
|------------------|----------------|----------------|------------------|---|
| 135a | END SECTION | 907.33 | N/A | INV IN = 905.00(S) |
| 136 | MANHOLE | 909.30 | NEENAH R-4342 | INV IN = 905.24(SW) INV IN = 905.24(SE) INV OUT = 905.14(N) |
| 137 | MANHOLE | 909.90 | NEENAH R-4342 | INV IN = 905.73(S) INV OUT = 905.63(NE) |
| 138 | MANHOLE | 910.10 | NEENAH R-4342 | INV IN = 905.93(SE) INV OUT = 905.83(N) |
| 139 | MANHOLE | 910.42 | NEENAH R-3501-TL | INV IN = 906.23(SE) INV OUT = 906.13(NW) |
| 140 | INLET TYPE J | 910.71 | NEENAH R-3501-TR | INV IN = 906.54(SE) INV OUT = 906.44(NW) |
| 141 | INLET TYPE J | 910.22 | NEENAH R-4342 | INV OUT = 907.08(NW) |
| 142 | INLET TYPE J | 910.49 | NEENAH R-3501-TL | INV IN = 905.73(SE) INV OUT = 905.63(NW) |
| 143 | MANHOLE | 910.49 | NEENAH R-3501-TR | INV IN = 905.92(SE) INV OUT = 905.82(NW) |
| 144 | MANHOLE | 910.86 | NEENAH R-1642 | INV IN = 906.10(SE) INV OUT = 906.00(NW) |
| 145 | INLET TYPE J | 909.00 | NEENAH R-4342 | INV OUT = 906.58(NW) |

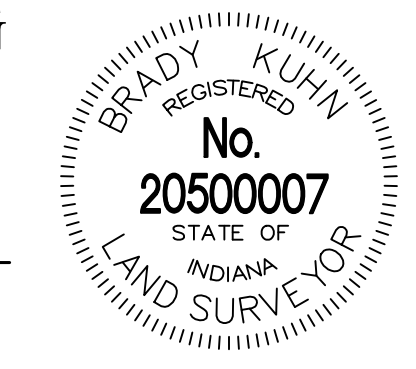
SSD LATERAL PLAN DETAIL

BENCHMARK INFORMATION

- BM - A DNR BRASS DISK SET IN THE TOP OF A CONCRETE POST, LEVEL WITH THE GROUND, STAMPED "HAM 41" LOCATED APPROXIMATELY 1,334 FEET WEST OF THE CENTERLINE OF DITCH ROAD AND ABOUT 14 FEET NORTH OF THE CENTERLINE OF 16TH STREET. STATE PLANE COORDINATES: N1736106.52 E181985.25 ELEV. = 917.54 NAVD 88
- T.B.M. 1 - "MAG" NAIL ON NORTH SIDE OF POWER POLE, 1.0 FT. UP, 509 FEET WEST OF CENTERLINE OF DECLARATION DRIVE AND 37 FEET SOUTH OF CENTERLINE OF 16TH STREET. ELEV. = 914.94 NAVD 88
- T.B.M. 2 - RAILROAD SPIKE ON NORTH SIDE OF POWER POLE, 0.9 FT. UP, 96 FEET EAST OF CENTERLINE OF DECLARATION DRIVE AND 40 FEET SOUTH OF CENTERLINE OF 16TH STREET. ELEV. = 914.05 NAVD 88
- T.B.M. 3 - RAILROAD SPIKE ON NORTH SIDE OF POWER POLE, 1.3 FT. UP, 670 FEET WEST OF CENTERLINE OF HADLEIGH PASS AND 14 FEET SOUTH OF CENTERLINE OF 16TH STREET. ELEV. = 914.63 NAVD 88
- T.B.M. 4 - RAILROAD SPIKE ON EAST SIDE OF POWER POLE, 1.0 FT. UP, 233 FEET EAST OF CENTERLINE OF HADLEIGH PASS DRIVE AND 18 FEET SOUTH OF CENTERLINE OF 16TH STREET. ELEV. = 914.32 NAVD 88
- T.B.M. 5 - NORTHEAST BONNET FLANGE BOLT FIRE HYDRANT, 56 FEET EAST OF CENTERLINE OF DITCH ROAD AND 618 FEET NORTH OF CENTERLINE OF 16TH STREET. ELEV. = 918.12 NAVD 88

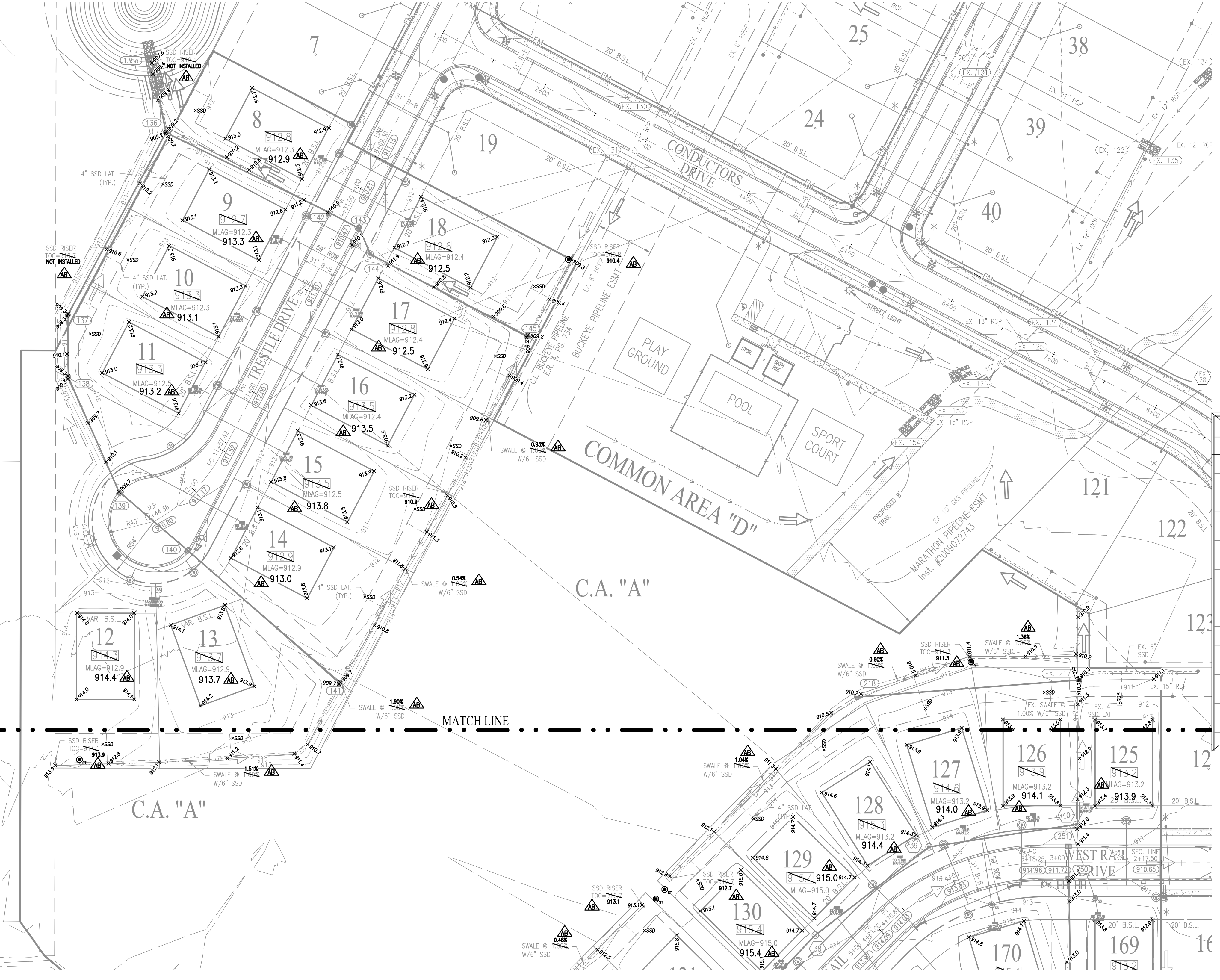
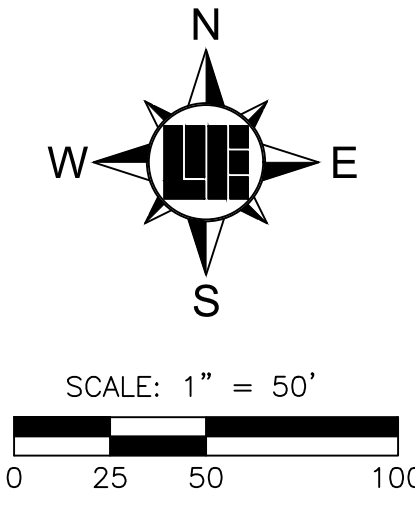
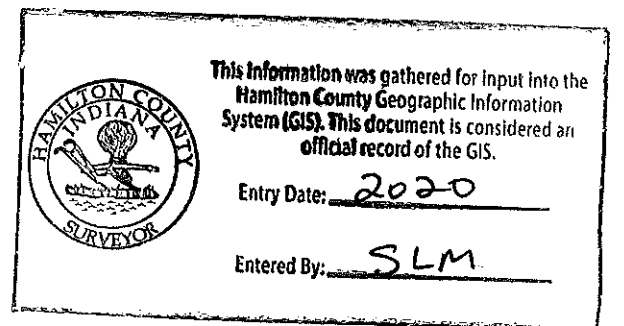
RECORD DRAWING
DEVELOPMENT PLAN AS-BUILTS
PADS AND SWALES ONLY
7/11/2019

BRADY KUHN, L.S. 20500007



- AS-BUILT INFORMATION
- BUILT AS PLANNED
- AS-BUILT SPOT ELEVATION
- AS-BUILT RISER
- AS-BUILT SUBSURFACE DRAIN

DATE OF LAST FIELDWORK: 07/03/2019

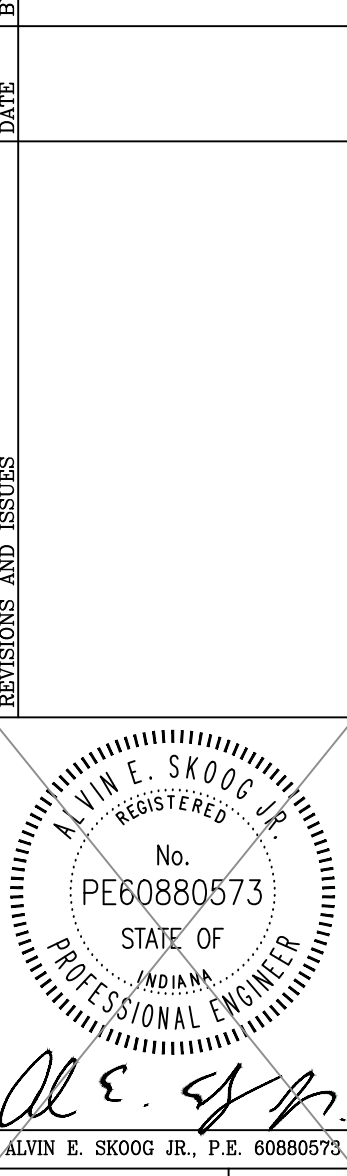


LOCATION: H:\2019\W150389\Section 2\Engineering\Design\submittals\Map_C300_Development.dwg
 DATE/TIME: July 28, 2020 - 10:13am
 PLOTTED BY: weaver

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



PROJECT NO.: W150389-2
DWG NAME: C300
DESIGNED BY: BT
DRAWN BY: SCB
CHECKED BY: AES
DATE: 01-02-2018



PREPARED FOR:
WEST RAIL AT THE STATION, SECTION TWO
Beazer Homes Indiana, LLP
156TH STREET & DITCH ROAD, WESTFIELD, IN
DEVELOPMENT PLAN
Part of Section 10, Township 18 North, Range 3 East, Washington Township, Hamilton County, Indiana

SHEET NO.
C300
PROJECT NO.
W150389-2

- NOTES:**
- CONTRACTOR TO INSTALL CONCRETE CRADLES WHEN THE VERTICAL SEPARATION (AS MEASURED FROM THE EXTERIOR OF THE PIPES) BETWEEN SANITARY SEWER FACILITIES, WATER MAIN, AND STORM SEWERS IS 18" OR LESS.
 - GRANULAR BACKFILL TO BE USED FOR ALL UTILITY AND SEWER TRENCHES CROSSING STREET RIGHT-OF-WAY.
 - PIPE CROSSINGS SHALL BE TYPE "B" BORROW. TYPE "B" BORROW SHALL MEET 1/2" OR GREATER NORMAL SIZE.
 - ALL PROPOSED CURB TO BE TYPE I ROLL CURB. (FOR DETAIL SEE SHT. #C406), UNLESS OTHERWISE NOTED.
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317-870-0122

MARATHON PIPELINE COMPANY, LLC
10722 EAST COMPANY ROAD 300 NORTH
INDIANAPOLIS, IN 46234
ATTN: AUSTIN GUYER
317-291-9460

LEGEND

- RIGHT-OF-WAY LINE
- STORM SEWER LINE
- SWALE
- SSD
- SANITARY SEWER LINE
- SANITARY SEWER MANHOLE
- SANITARY SEWER LATERAL
- PROPOSED WATER LINE
- FLOW DIRECTION
- EXISTING CONTOURS
- PROPOSED ELEVATION
- STORM BEEHIVE INLET
- STORM INLET
- TOP OF CASTING
- INV.
- RCP
- M.H.
- STR.
- D.E.
- D.U.&S.E.
- CONCRETE END SECTION
- MATCH EXISTING
- HPPPP
- HIGH PRESSURE PETROLEUM PRODUCTS PIPELINE
- TYP. PROP.
- EX.
- R.
- V.W.
- MLAG
- ROW
- B-B
- PAD ELEV.
- 860.4
- EMERGENCY FLOOD ROUTE
- B.S.L.
- BUILDING SETBACK LINE
- HP
- HIGH POINT
- ADA RAMP
- FIRE HYDRANT
- PROPOSED 8" ASPHALT PATH
- STREET LIGHT

GENERAL GRADING NOTES:

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STORM SEWER STRUCTURE DATA TABLE

| STRUCTURE NUMBER | STRUCTURE TYPE | TOP OF CASTING | CASTING TYPE | INVERT |
|------------------|----------------|----------------|------------------|--|
| 240 | END SECTION | 0.00 | N/A | INV IN = 903.60(NE) INV OUT = 904.04(SW) |
| 241 | MANHOLE | 909.93 | NEENAH R-3501-TL | INV IN = 904.14(N) INV OUT = 904.21(S) |
| 242 | MANHOLE | 909.93 | NEENAH R-3501-TR | INV IN = 904.31(NE) INV OUT = 904.21(S) |
| 244 | MANHOLE | 910.00 | NEENAH R-4342 | INV IN = 904.70(NW) INV OUT = 904.60(SW) |
| 245 | MANHOLE | 911.60 | NEENAH R-4342 | INV IN = 905.21(NE) INV IN = 905.61(NW) INV OUT = 905.11(SE) |
| 246 | MANHOLE | 913.09 | NEENAH R-3501-TR | INV IN = 905.72(NE) INV OUT = 905.62(SW) |
| 247 | MANHOLE | 913.09 | NEENAH R-3501-TL | INV IN = 905.93(NE) INV OUT = 905.83(SW) |
| 248 | MANHOLE | 910.30 | NEENAH R-4342 | INV IN = 906.40(NE) INV IN = 906.90(NW) INV OUT = 906.30(SW) |
| 249 | MANHOLE | 910.30 | NEENAH R-4342 | INV IN = 906.95(N) INV OUT = 906.85(SW) |
| 250 | INLET TYPE J | 911.70 | NEENAH R-3501-TL | INV IN = 907.60(N) INV OUT = 907.50(S) |
| 251 | INLET TYPE J | 911.70 | NEENAH R-3501-TR | INV OUT = 907.70(S) |
| 253 | INLET TYPE J | 913.20 | NEENAH R-3501-TL | INV IN = 909.05(NW) INV OUT = 908.95(SE) |
| 254 | INLET TYPE J | 913.20 | NEENAH R-3501-TR | INV OUT = 909.20(SE) |
| 257 | MANHOLE | 913.20 | NEENAH R-3501-TL | INV IN = 906.36(NW) INV OUT = 906.26(SE) |
| 258 | MANHOLE | 913.20 | NEENAH R-3501-TR | INV IN = 906.87(NW) INV OUT = 906.57(SE) |
| 259 | INLET TYPE J | 911.50 | NEENAH R-4342 | INV IN = 907.39(NE) INV IN = 907.39(SW) INV OUT = 907.14(SE) |
| 260 | INLET TYPE J | 911.30 | NEENAH R-4342 | INV OUT = 908.10(SW) |
| 261 | INLET TYPE J | 911.60 | NEENAH R-4342 | INV OUT = 908.40(NE) |

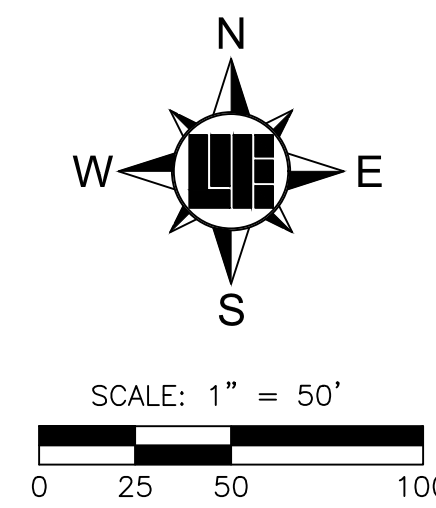
SSD LATERAL PLAN DETAIL

BENCHMARK INFORMATION

- BM - A DNR BRASS DISK SET IN THE TOP OF A CONCRETE POST, LEVEL WITH THE GROUND, STAMPED "HAM 41" LOCATED APPROXIMATELY 1,334 FEET WEST OF THE CENTERLINE OF DITCH ROAD AND ABOUT 14 FEET NORTH OF THE CENTERLINE OF 156TH STREET. STATE PLANE COORDINATES: N1736106.52 E181985.25 ELEV. = 912.54 NAVD 88
- T.B.M. 1 - "MAG" NAIL ON NORTH SIDE OF POWER POLE, 1.0 FT. UP, 509 FEET WEST OF CENTERLINE OF DECLARATION DRIVE AND 37 FEET SOUTH OF CENTERLINE OF 156TH STREET. ELEV. = 914.94 NAVD 88
- T.B.M. 2 - RAILROAD SPIKE ON NORTH SIDE OF POWER POLE, 0.9 FT. UP, 96 FEET EAST OF CENTERLINE OF DECLARATION DRIVE AND 40 FEET SOUTH OF CENTERLINE OF 156TH STREET. ELEV. = 914.05 NAVD 88
- T.B.M. 3 - RAILROAD SPIKE ON NORTH SIDE OF POWER POLE, 1.3 FT. UP, 670 FEET WEST OF CENTERLINE OF HADLIGH PASS AND 14 FEET SOUTH OF CENTERLINE OF 161ST STREET. ELEV. = 914.63 NAVD 88
- T.B.M. 4 - RAILROAD SPIKE ON EAST SIDE OF POWER POLE, 1.0 FT. UP, 233 FEET EAST OF CENTERLINE OF HADLIGH PASS DRIVE AND 18 FEET SOUTH OF CENTERLINE OF 161ST STREET. ELEV. = 914.32 NAVD 88
- T.B.M. 5 - NORTHEAST BONNET FLANGE BOLT FIRE HYDRANT, 56 FEET EAST OF CENTERLINE OF DITCH ROAD AND 676 FEET NORTH OF CENTERLINE OF 156TH STREET. ELEV. = 918.12 NAVD 88

RECORD DRAWING
DEVELOPMENT PLAN AS-BUILTS
PADS AND SWALES ONLY
7/11/2019

BRADY KUHN, L.S. 20500007



- AS-BUILT INFORMATION
- BUILT AS PLANNED
- AS-BUILT SPOT ELEVATION
- AS-BUILT RISER
- AS-BUILT SUBSURFACE DRAIN

BRADY KUHN
REGISTERED
No. 20500007
STATE OF INDIANA
LAND SURVEYOR

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: 2020
Entered By: SLM

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.: W150389-2
DWG NAME: C3000
DESIGNED BY:
DRAWN BY:
CHECKED BY:
DATE: 01-02-2018

REVISIONS AND ISSUES

ALVIN E. SKOOG JR.
REGISTERED
No. PE60880573
STATE OF INDIANA
PROFESSIONAL ENGINEER

WEST RAIL AT THE STATION, SECTION TWO
Beazer Homes Indiana, LLP
156TH STREET & DITCH ROAD, WESTFIELD, IN
DEVELOPMENT PLAN

SHEET NO. **C301**
PROJECT NO. W150389-2



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LOCATION SERVICE TWO (2) WORKING
DAYS BEFORE COMMENCING WORK.

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

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

NOTES:

1. ALL STRUCTURES DEEPER THAN 4'-0" MUST BE ACCESSIBLE w/ STEPS.
2. DEBRIS GUARDS TO BE INSTALLED ON ALL OPEN ENDED INLETS.
3. ALL BEEHIVE CASTINGS ON A 2'X2' BOX SHALL HAVE A SQUARE RISER WITH A ROUND HOLE.

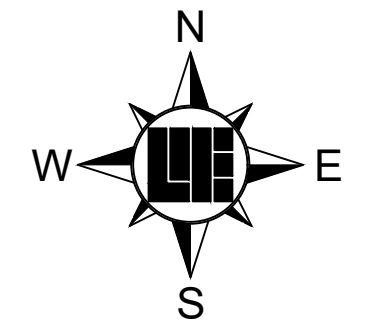
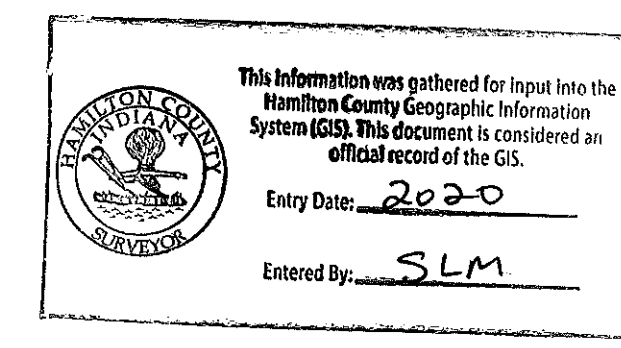
RECORD DRAWING
STORM SEWER AS-BUILTS
STORM SEWER STRUCTURES ONLY
7/11/2019

BRADY KUHN, L.S. 20500007



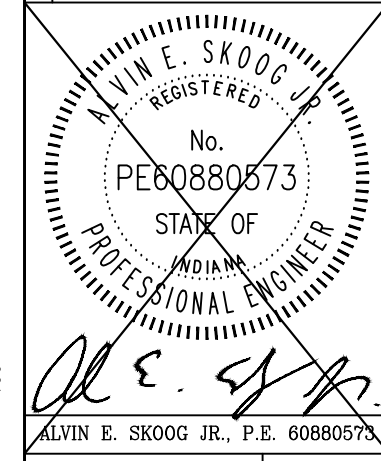
- ▲ - ASBUILT INFORMATION
- ✓ - BUILT AS PLANNED

DATE OF LAST FIELDWORK: 07/03/2019



HORIZONTAL SCALE:
1"=50'

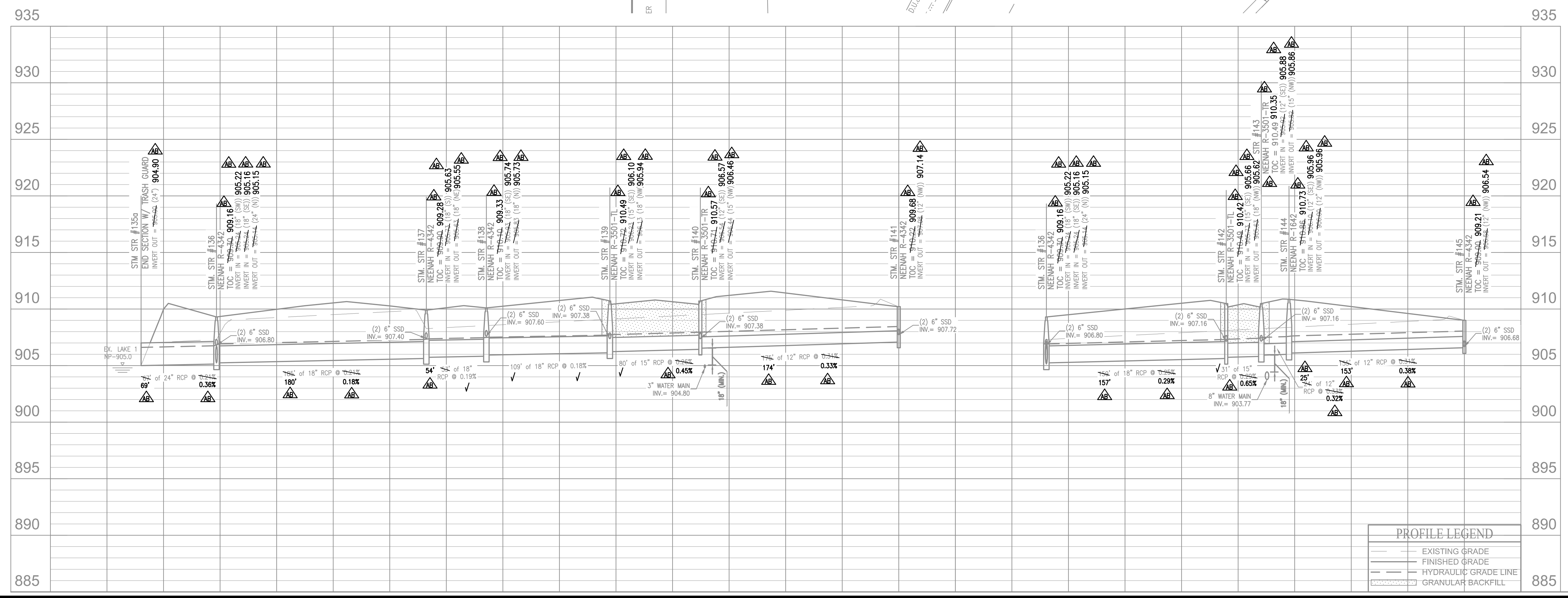
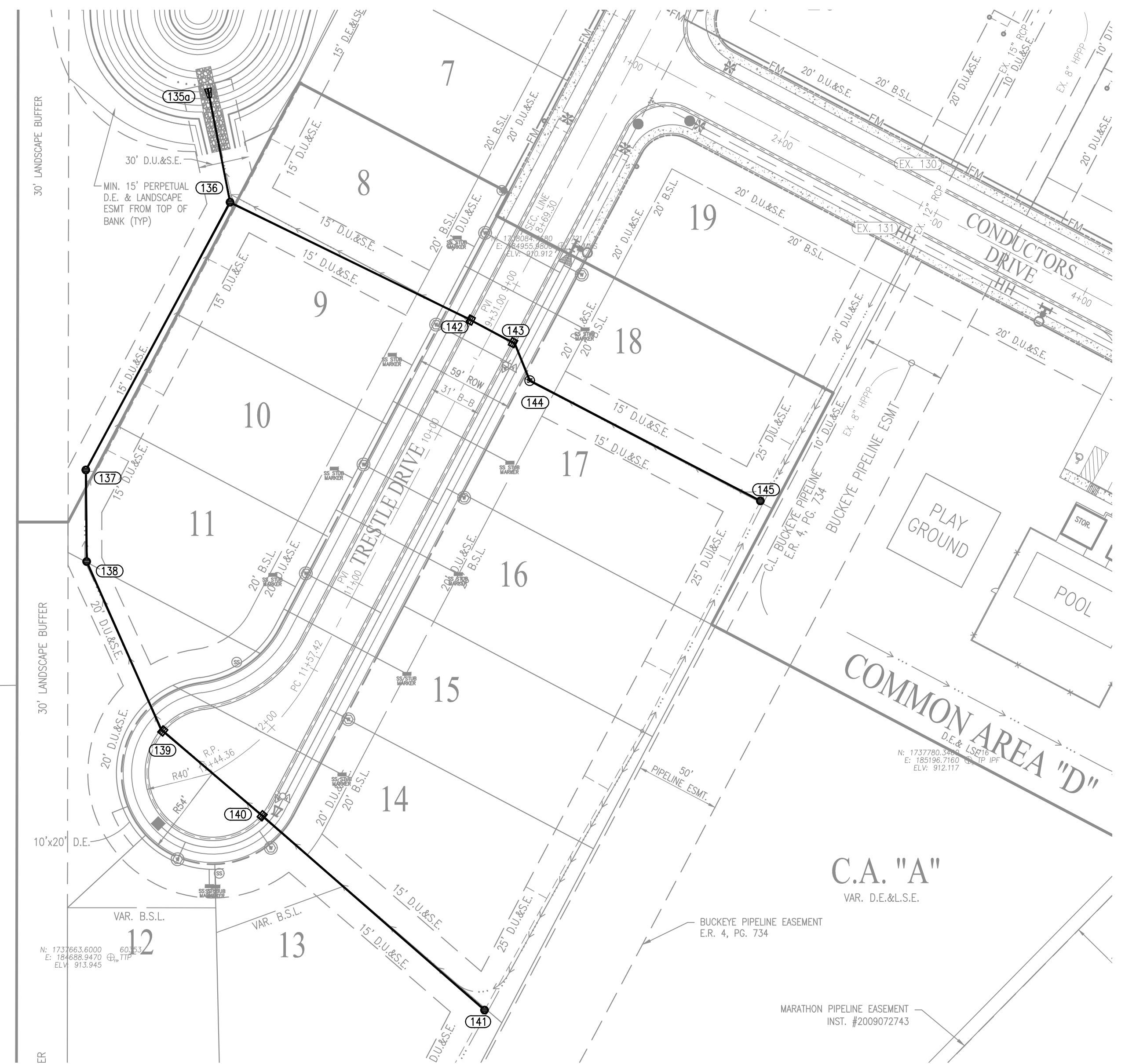
VERTICAL SCALE:
1"=5.0'



PREPARED FOR:
WEST RAIL AT THE STATION, SECTION TWO
Beazer Homes Indiana, LLP
156TH STREET & DITCH ROAD, WESTFIELD, IN
STORM SEWER PLAN & PROFILES
Part of Section 10, Township 18 North, Range 3 East, Washington Township, Hamilton County, Indiana

SHEET NO.
C600
PROJECT NO.
W150389-2

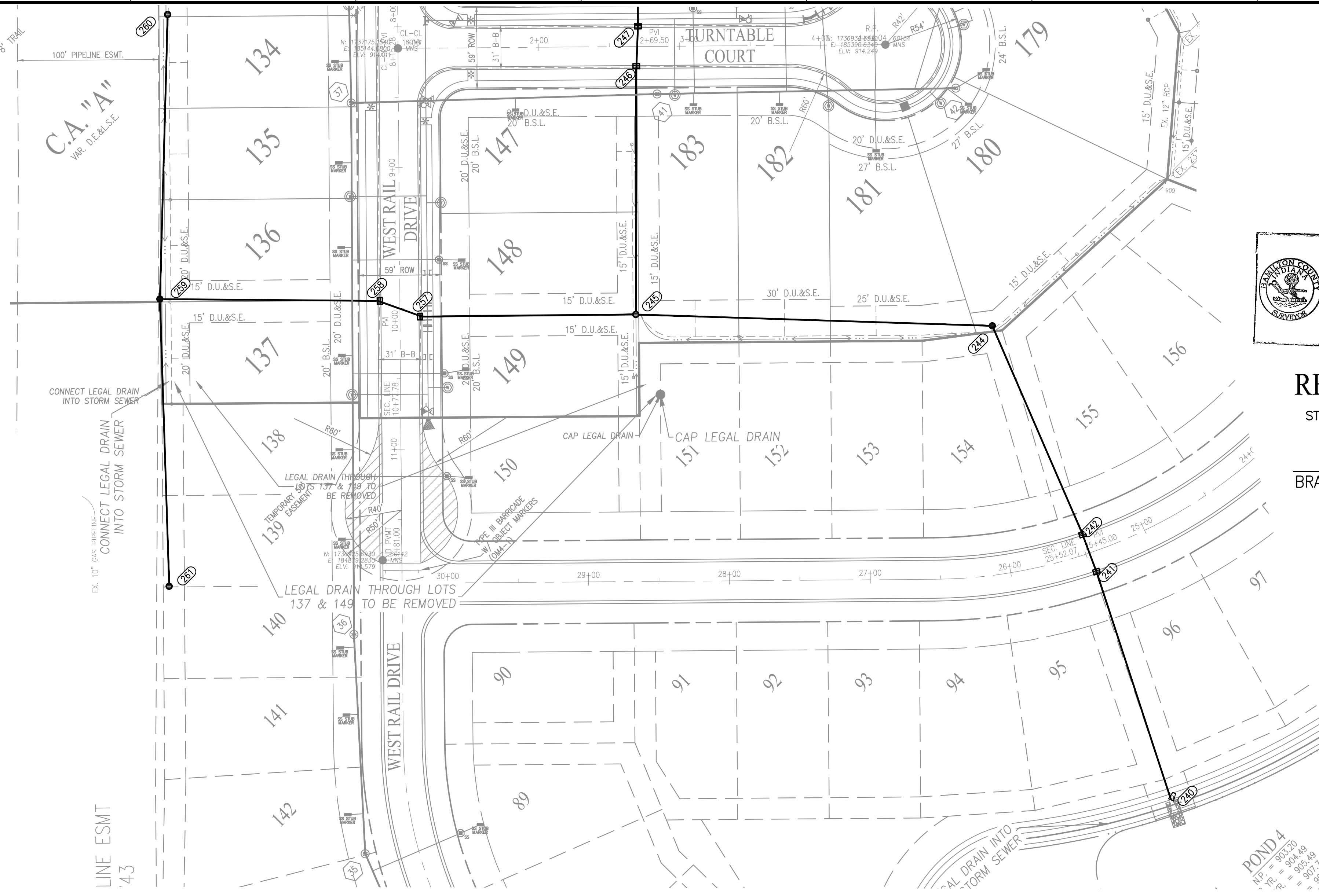
| STORM SEWER STRUCTURE DATA TABLE | | | | |
|----------------------------------|----------------|----------------|------------------|---|
| STRUCTURE NUMBER | STRUCTURE TYPE | TOP OF CASTING | CASTING TYPE | INVERT |
| 135a | END SECTION | 907.33 | N/A | INV IN = 905.00(S) |
| 136 | MANHOLE | 909.30 | NEENAH R-4342 | INV IN = 905.24(SW) INV IN = 905.24(SE) INV OUT = 905.14(N) |
| 137 | MANHOLE | 909.90 | NEENAH R-4342 | INV IN = 905.73(S) INV OUT = 905.63(NE) |
| 138 | MANHOLE | 910.10 | NEENAH R-4342 | INV IN = 905.93(SE) INV OUT = 905.83(N) |
| 139 | MANHOLE | 910.22 | NEENAH R-3501-TL | INV IN = 906.23(SE) INV OUT = 906.13(NW) |
| 140 | INLET TYPE J | 910.71 | NEENAH R-3501-TR | INV IN = 906.54(SE) INV OUT = 906.44(NW) |
| 141 | INLET TYPE J | 910.22 | NEENAH R-4342 | INV OUT = 907.08(NW) |
| 142 | INLET TYPE J | 910.49 | NEENAH R-3501-TL | INV IN = 905.73(SE) INV OUT = 905.63(NW) |
| 143 | MANHOLE | 910.49 | NEENAH R-3501-TR | INV IN = 905.92(SE) INV OUT = 905.82(NW) |
| 144 | MANHOLE | 910.86 | NEENAH R-1642 | INV IN = 906.10(SE) INV OUT = 905.00(NW) |
| 145 | INLET TYPE J | 909.00 | NEENAH R-4342 | INV OUT = 906.58(NW) |



| PROFILE LEGEND | |
|----------------|----------------------|
| | EXISTING GRADE |
| | FINISHED GRADE |
| | HYDRAULIC GRADE LINE |
| | GRANULAR BACKFILL |

LOCATION: W:\2019\W150389\Section 2\Engineering\Design\Subarea\AB\Consent\AB_C600 Storm Plan.dwg
DATE/TIME: July 12, 2019 - 2:48pm
PLOTTED BY: weiever

| STORM SEWER STRUCTURE DATA TABLE | | | | |
|----------------------------------|----------------|----------------|------------------|---|
| STRUCTURE NUMBER | STRUCTURE TYPE | TOP OF CASTING | CASTING TYPE | INVERT |
| 240 | END SECTION | 0.00 | N/A | INV IN = 903.60(N/E) |
| 241 | MANHOLE | 909.93 | NEENAH R-3501-TL | INV IN = 904.14(N) INV OUT = 904.04(SW) |
| 242 | MANHOLE | 909.93 | NEENAH R-3501-TR | INV IN = 904.31(N/E) INV OUT = 904.21(S) |
| 244 | MANHOLE | 910.00 | NEENAH R-4342 | INV IN = 904.70(NW) INV OUT = 904.60(SW) |
| 245 | MANHOLE | 911.60 | NEENAH R-4342 | INV IN = 905.21(N/E) INV IN = 905.61(NW) INV OUT = 905.11(SE) |
| 246 | MANHOLE | 913.09 | NEENAH R-3501-TR | INV IN = 905.72(N/E) INV OUT = 905.62(SW) |
| 247 | MANHOLE | 913.09 | NEENAH R-3501-TL | INV IN = 905.93(N/E) INV OUT = 905.83(SW) |
| 248 | MANHOLE | 910.30 | NEENAH R-4342 | INV IN = 906.40(N/E) INV IN = 906.90(NW) INV OUT = 906.30(SW) |
| 249 | MANHOLE | 910.30 | NEENAH R-4342 | INV IN = 906.95(N) INV OUT = 906.85(SW) |
| 250 | INLET TYPE J | 911.70 | NEENAH R-3501-TL | INV IN = 907.60(N) INV OUT = 907.50(S) |
| 251 | INLET TYPE J | 911.70 | NEENAH R-3501-TR | INV OUT = 907.70(S) |
| 253 | INLET TYPE J | 913.20 | NEENAH R-3501-TL | INV IN = 909.05(NW) INV OUT = 908.95(SE) |
| 254 | INLET TYPE J | 913.20 | NEENAH R-3501-TR | INV OUT = 909.20(SE) |
| 257 | MANHOLE | 913.20 | NEENAH R-3501-TL | INV IN = 906.36(NW) INV OUT = 906.26(SE) |
| 258 | MANHOLE | 913.20 | NEENAH R-3501-TR | INV IN = 906.67(NW) INV OUT = 906.57(SE) |
| 259 | INLET TYPE J | 911.50 | NEENAH R-4342 | INV IN = 907.39(N/E) INV IN = 907.39(SW) INV OUT = 907.14(SE) |
| 260 | INLET TYPE J | 911.30 | NEENAH R-4342 | INV OUT = 908.10(SW) |
| 261 | INLET TYPE J | 911.60 | NEENAH R-4342 | INV OUT = 908.40(N/E) |



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: 2020

Entered By: SLM

- NOTES:**
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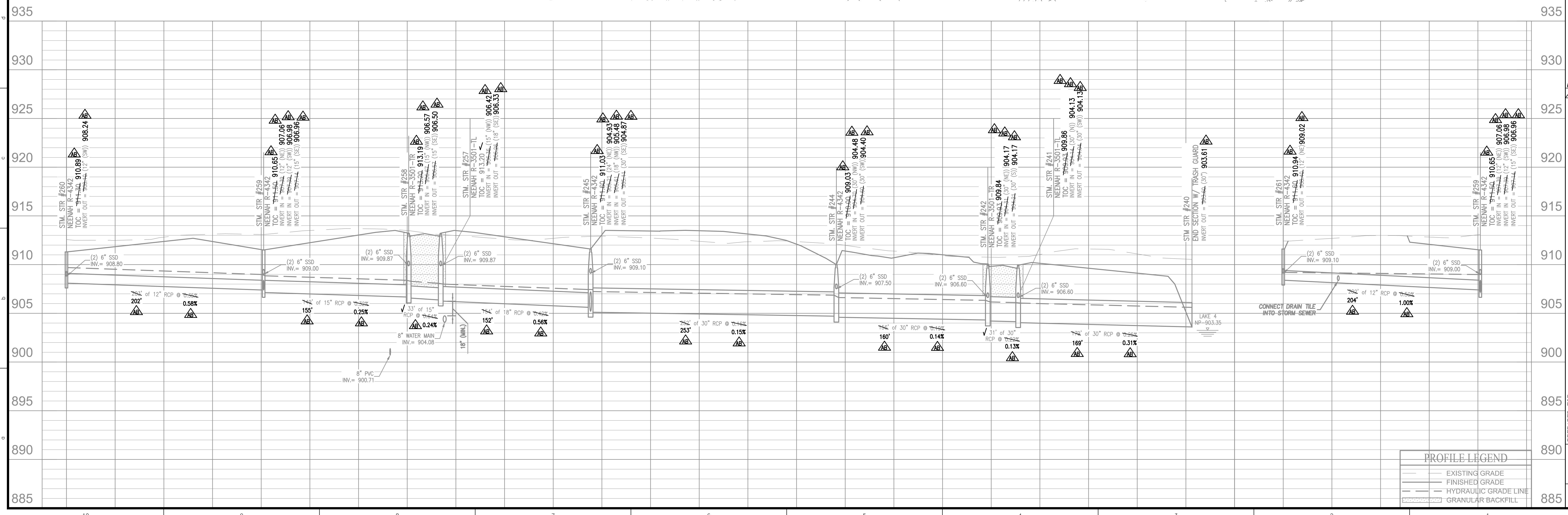
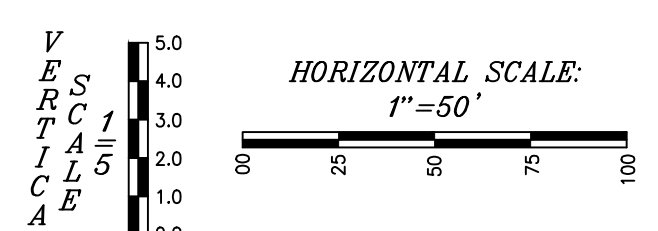
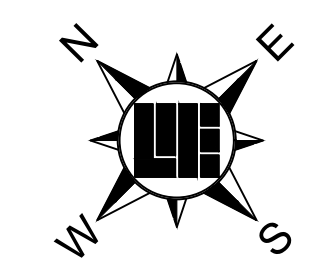
RECORD DRAWING
STORM SEWER AS-BUILTS
STORM SEWER STRUCTURES ONLY
7/11/2019

BRADY KUHN, L.S. 20500007



- AS-BUILT INFORMATION
- BUILT AS PLANNED

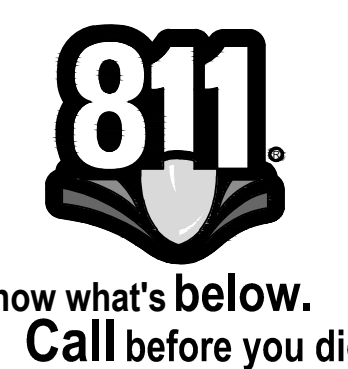
DATE OF LAST FIELDWORK: 07/03/2019



| PROFILE LEGEND | |
|----------------|----------------------|
| (Symbol) | EXISTING GRADE |
| (Symbol) | FINISHED GRADE |
| (Symbol) | HYDRAULIC GRADE LINE |
| (Symbol) | GRANULAR BACKFILL |

PROJECT NO. **W150389-2**

SHEET NO. **C601**



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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. W150389-2
DWG NAME: C601
DESIGNED BY: [Signature]
DRAWN BY: SCS
CHECKED BY: AES
DATE: 07-02-2019

REVISIONS AND ISSUES

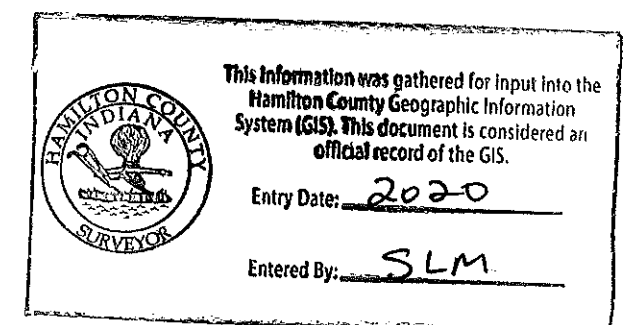
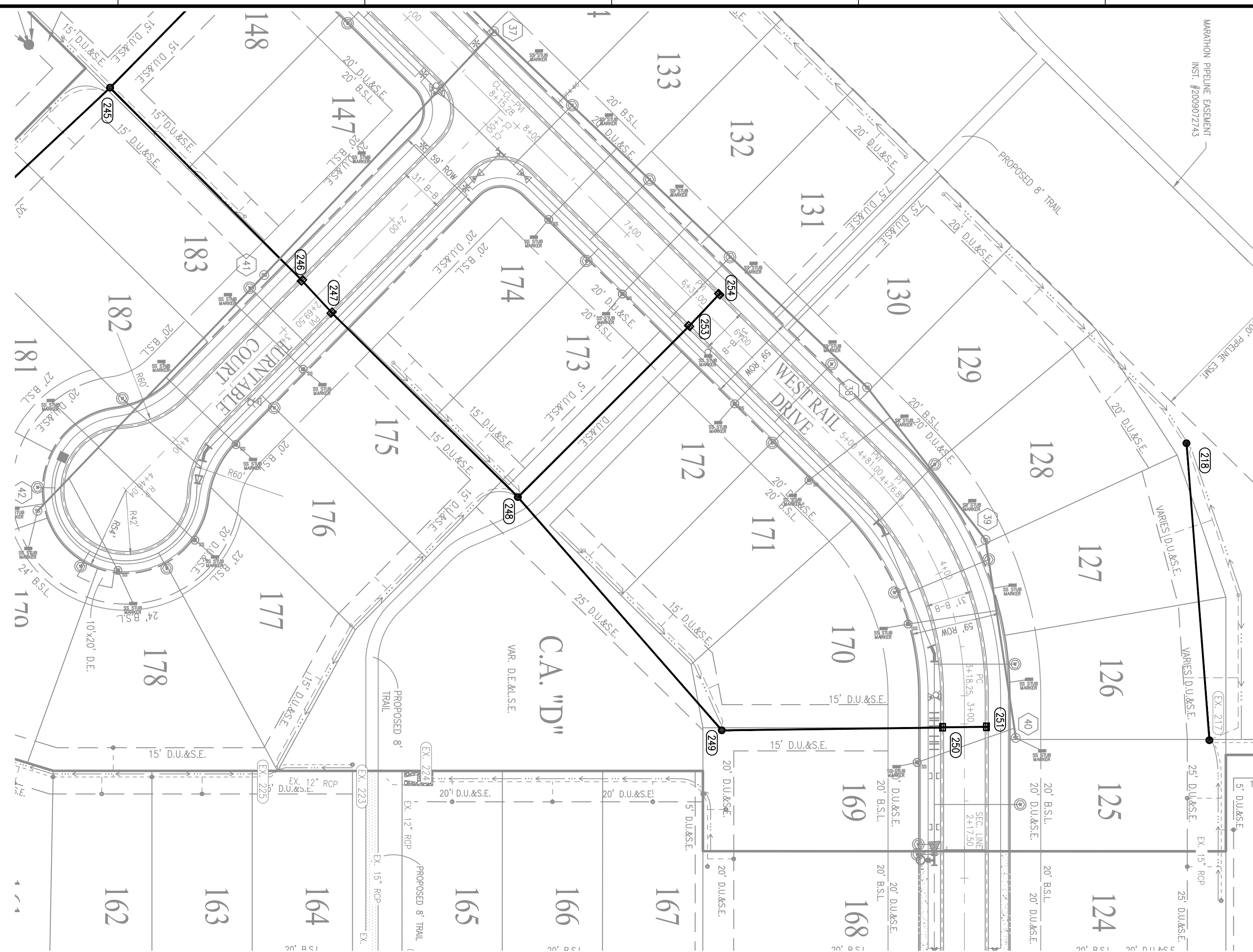
ALVIN E. SKOOG JR., P.E. 60880973
REGISTERED PROFESSIONAL ENGINEER

PREPARED FOR:
WEST RAIL AT THE STATION, SECTION TWO
Beazer Homes Indiana, LLP
156TH STREET & DITCH ROAD, WESTFIELD, IN

STORM SEWER PLAN & PROFILES
Part of Section 10, Township 18 North, Range 3 East, Washington Township, Hamilton County, Indiana

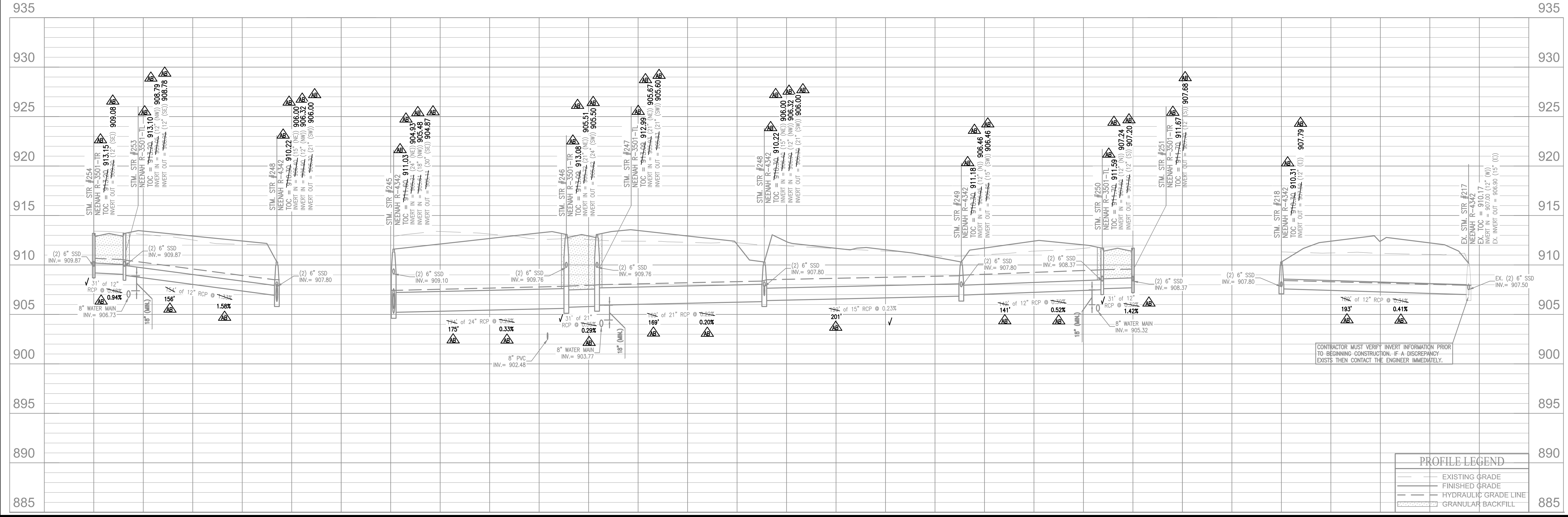
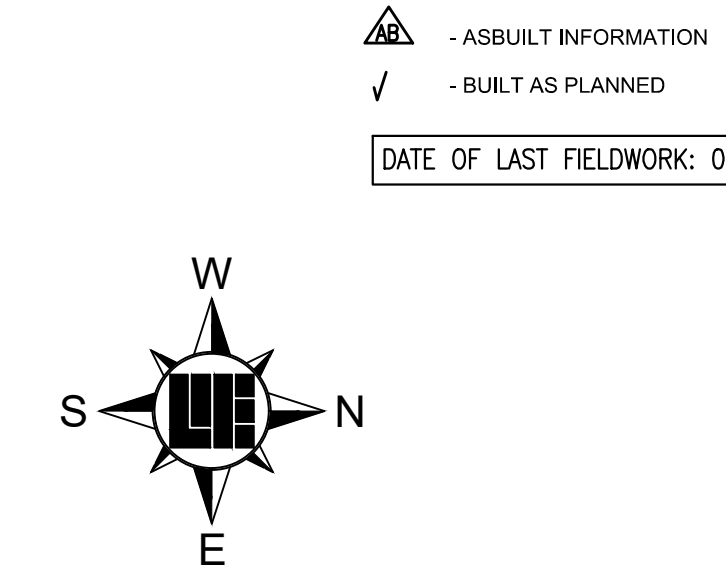
LOCATION: W150389 Section 2 Engineering\Design\Subarea\AB\Consent\AB\0300 Storm Plan.dwg
DATE/TIME: July 12, 2019 - 2:47pm
PLOTTED BY: weiever

| STORM SEWER PIPE DATA TABLE | | | | | |
|-----------------------------|--------------------|------|----------|--------|-------|
| DWNSTREAM STRUCTURE | UPSTREAM STRUCTURE | SIZE | MATERIAL | LENGTH | SLOPE |
| 136 | 135a | 24" | RCP | 67' | 0.21% |
| 137 | 136 | 18" | RCP | 185' | 0.21% |
| 138 | 137 | 18" | RCP | 53' | 0.19% |
| 139 | 138 | 18" | RCP | 195' | 0.18% |
| 140 | 139 | 15" | RCP | 80' | 0.26% |
| 141 | 140 | 12" | RCP | 175' | 0.31% |
| 142 | 136 | 18" | RCP | 159' | 0.25% |
| 143 | 142 | 15" | RCP | 31' | 0.29% |
| 144 | 143 | 12" | RCP | 24' | 0.33% |
| 145 | 144 | 12" | RCP | 155' | 0.31% |
| 218 | 217 | 12" | RCP | 189' | 0.31% |
| 241 | 240 | 30" | RCP | 179' | 0.25% |
| 242 | 241 | 30" | RCP | 31' | 0.22% |
| 244 | 242 | 30" | RCP | 156' | 0.19% |
| 245 | 244 | 30" | RCP | 252' | 0.16% |
| 246 | 245 | 24" | RCP | 174' | 0.23% |
| 247 | 246 | 21" | RCP | 31' | 0.35% |
| 248 | 247 | 21" | RCP | 169' | 0.22% |
| 249 | 248 | 15" | RCP | 199' | 0.23% |
| 250 | 249 | 12" | RCP | 142' | 0.39% |
| 251 | 250 | 12" | RCP | 31' | 0.32% |
| 253 | 248 | 12" | RCP | 154' | 1.33% |
| 254 | 253 | 12" | RCP | 31' | 0.48% |
| 257 | 245 | 18" | RCP | 154' | 0.42% |
| 258 | 257 | 15" | RCP | 33' | 0.64% |
| 259 | 258 | 15" | RCP | 149' | 0.32% |
| 260 | 259 | 12" | RCP | 203' | 0.38% |
| 261 | 259 | 12" | RCP | 202' | 0.50% |



RECORD DRAWING
 STORM SEWER AS-BUILTS
 STORM SEWER STRUCTURES ONLY
 7/11/2019
 BRADY KUHN, L.S. 2050007

- NOTES:**
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| PROFILE LEGEND | |
|----------------|----------------------|
| | EXISTING GRADE |
| | FINISHED GRADE |
| | HYDRAULIC GRADE LINE |
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 DAYS BEFORE COMMENCING WORK.

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PROJECT NO.: W150389-2
 DWG. NAME: STORM SEWER AS-BUILTS
 DESIGNER: [Signature]
 DRAWN BY: SCS
 CHECKED BY: AES
 DATE: 07-11-2019

BRADY KUHN
 REGISTERED
 No. 2050007
 STATE OF INDIANA
 LAND SURVEYOR

ALVIN E. SKOOG JR., P.E. 68886973

PREPARED FOR:
WEST RAIL AT THE STATION, SECTION TWO
 Beazer Homes Indiana, L.L.P.
 156TH STREET & DITCH ROAD, WESTFIELD, IN
STORM SEWER PLAN & PROFILES
 Part of Section 10, Township 18 North, Range 3 East, Washington Township, Hamilton County, Indiana

SHEET NO.
C602
 PROJECT NO.
W150389-2

LOCATION: H:\2019\W150389\Section 2\Engineering\Design\Subarea\AB_Consect\AB_C000_Storm_Prf.dwg
 DATE/TIME: July 12, 2019 - 2:48pm
 PLOTTED BY: weaver