

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

January 21, 2021

To: Hamilton County Drainage Board

Re: Williams Creek, West Rail at the Station Section 4 Arm

Attached is a petition filed by Homes by Drees Homes, Inc., along with a non-enforcement request, plans, calculations, quantity summary and assessment roll for West Rail Section 4, 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.

Upon reviewing these plans, 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	910 ft.	24" RCP	31 ft.
15" RCP	1,010 ft.	30"	198 ft.
18" RCP	377 ft.	SSD	2,518 ft.
21" RCP	673 ft.		

The total length of the drain will be 5,717 feet.

The subsurface drains (SSD) to be part of the regulated drain are those main lines located in rear yards and common areas. The SSD's in the street will not be part of the regulated drain due to street trees and the Hamilton County Drainage Board discussion on July 9, 2018, (see Hamilton County Drainage Board Minute Book 18, pages 204 to 206). The street SSD will be the maintenance responsibility of the City of Westfield. Only the main SSD lines which are located within the platted easement are to be maintained as regulated drain. Laterals for individual lots will not be considered part the of the regulated drain. The portion of the SSD which will be regulated are as follows:

Yard SSDs

Rear yard lots 41 to 57 from 158 feet west of Str. 330 to Str. 313

Side/Rear yard lots 57 to 62 from Str. 313 to existing Str. 310.

Rear yard lot lots 69 to 74 from 52 feet northwest of Str. 303 to 53 feet northeast of existing Str. 301

The drain maintenance shall include the inlets, outlets, sub-surface drains and reinforced concrete pipes that are listed as part of the new regulated drain. The maintenance of the detention pond such as, erosion control or mowing and the maintenance of water quality BMP structures will be the responsibility of the West Rail at the Station HOA or the city of Westfield. The Board will also retain jurisdiction for ensuring the storage volume for which the pond was designed will be retained. Thereby, allowing no fill or easement encroachments.

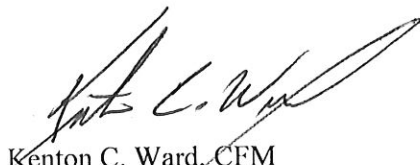
I have reviewed the plans and believe the drain will benefit each lot equally. Therefore, I recommend each lot to be assessed equally. I also believe that no damages will result to landowners by the constructor of this drain. I recommend a maintenance assessment of \$65.00 per lot, \$10.00 per acre for common areas, with \$65.00 minimum, and \$10.00 per acre for roadways. With this assessment the total annual assessment for this drain will be \$2,466.20.

In accordance with IC 36-7-4-709, the petitioner did not submit surety for the proposed drain prior to drainage board approval. A bond will be submitted prior to the commencement of construction.

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 designed as an urban drain.

I recommend that upon approval of the above proposed drain that the board also approve the attached non-enforcement requests for West Rail Section 4. The request will be for the reduction of the regulated drain easements to those easement widths as shown on the secondary plat for West Rail Section 4.

I recommend the Board set a hearing for this proposed drain for April 26, 2021.



Kenton C. Ward, CFM

Hamilton County Surveyor

KCW/pll

STATE OF INDIANA)
)
COUNTY OF HAMILTON)

FILED

NOV 19 2020

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

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

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

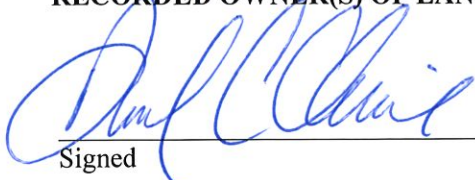
Petitioner agrees to pay the cost of construction of the drainage system and requests periodic maintenance assessments by the Board thereafter.

The Petitioner also agrees to the following:

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

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

RECORDED OWNER(S) OF LAND INVOLVED


Signed

PAUL C. CLAIRE
Printed Name BEAZER HOMES

10/20/20
Date

Signed

Printed Name

Date

Signed

Printed Name

Date

Signed

Printed Name

Date

FINDINGS AND ORDER

CONCERNING THE MAINTENANCE OF THE

**Williams Creek Drain
West Rail at the Station Section 4 Arm**


On this **26th day of April, 2021**, 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 4 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

FILED

JAN 14 2021



ENGINEER'S ESTIMATE OF PROBABLE COST

Project: West Rail - Section 4
W150389-4

OFFICE OF HAMILTON COUNTY SURVEYOR
Date: 11/30/2020

STORM SEWERS

		Quantity	Unit Price	Gross Price
Structures	Small Manhole	EA	1	\$ 1,952.00 \$ 1,952.00
	Large Manhole	EA	0	\$ 2,417.00 \$ -
	Small Beehive Inlet	EA	11	\$ 1,490.00 \$ 16,390.00
	Large Beehive Inlet	EA	1	\$ 2,467.00 \$ 2,467.00
	Small Single Curb Inlet	EA	7	\$ 2,200.00 \$ 15,400.00
	Large Single Curb Inlet	EA	1	\$ 2,585.00 \$ 2,585.00
	Double Curb Inlet	EA	3	\$ 2,800.00 \$ 8,400.00
	12" End Section	EA	1	\$ 1,650.00 \$ 1,650.00
	18" End Section	EA	1	\$ 1,950.00 \$ 1,950.00
	30" End Section	EA	1	\$ 2,250.00 \$ 2,250.00
	6" Subsurface Drain - Swales	LF	3385	\$ 9.20 \$ 31,142.00
	SSD Risers	EA	26	\$ 269.50 \$ 7,007.00
	Lot Leads	EA	104	\$ 99.00 \$ 10,296.00
	Granular Backfill	TONS	193	\$ 20.50 \$ 3,956.50
Stone Bedding	TONS	238	\$ 21.50 \$ 5,117.00	

Qty	Measurement	Size	Material	Unit Price	Gross Price
910	Linear feet of	12"	RCP	\$ 19.00	\$ 17,290.00
1010	Linear feet of	15"	RCP	\$ 23.10	\$ 23,331.00
377	Linear feet of	18"	RCP	\$ 27.40	\$ 10,329.80
377	Linear feet of	21"	RCP	\$ 32.40	\$ 12,214.80
31	Linear feet of	24"	RCP	\$ 37.10	\$ 1,150.10
198	Linear feet of	30"	RCP	\$ 40.00	\$ 7,920.00
				STORM SEWER TOTAL:	\$ 182,798.20

EROSION CONTROL

		Quantity	Unit Price	Gross Price	
Seeding	Curb Inlet Basket	EA	11.0	\$ 145.00 \$ 1,595.00	
	Beehive Protection	EA	14.0	\$ 80.00 \$ 1,120.00	
	Silt Fence	LF	9,716	\$ 1.15 \$ 11,173.40	
	Seed & Straw behind Curb	SF	24,294	\$ 0.04 \$ 971.76	
	EC Blanket w/ Perm Seed - Swales	SF	95,777	\$ 0.13 \$ 12,451.01	
	Permanent Seeding	SF	283,919	\$ 0.04 \$ 11,356.76	
	Temporary Seed w/ Mulch	SF	293,492	\$ 0.03 \$ 8,804.76	
				EROSION CONTROL TOTAL	\$ 47,472.69

Sidewalks

		Quantity	Unit Price	Gross Price	
	5' Concrete Sidewalk (common areas)	SF	1,278	\$ 4.34 \$ 5,546.52	
	Truncated Domes	LF	46	\$ 100.00 \$ 4,600.00	
				SIDEWALK TOTAL	\$ 10,146.52

Streets/Curb

		Quantity	Unit Price	Gross Price	
Streets	Local Street				
	Subgrade Treatment	SYS	5,464	\$ 9.00 \$ 49,176.00	
	6" of #53 Commercial Street Stone	SYS	5,464	\$ 6.13 \$ 33,513.36	
	Asphalt Pavement (1.5"/2.5"/2.5")	SYS	5,464	\$ 36.00 \$ 196,704.00	
Curb	Collector (Entrance)				
	Subgrade Treatment	SYS	1,651	\$ 9.00 \$ 14,859.00	
	6" of #53 Commercial Street Stone	SYS	1,651	\$ 6.13 \$ 10,126.38	
	Asphalt Pavement (1.5"/2.5"/2.5")	SYS	1,651	\$ 36.00 \$ 59,436.00	
	6" Subsurface Drain - Curbs	LF	3,035	\$ 9.20 \$ 27,922.00	
	Roll Curb	LF	3,035	\$ 8.39 \$ 25,463.65	
	Raised Pavement Markers	EA	5	\$ 302.50 \$ 1,512.50	
				STREETS/CURB TOTAL	\$ 418,712.90

Trail

		Quantity	Unit Price	Gross Price	
	8' Wide Asphalt Path	SYS	616	\$ 30.00 \$ 18,480.00	
				TRAIL TOTAL	\$ 18,480.00

Bond Estimate Prepared by:

Signature: *Jim Pence*

Printed Name: Jim Pence
Title: Project Manager
Date: 11/30/2020

BEFORE THE HAMILTON COUNTY DRAINAGE BOARD
IN THE MATTER OF

**Williams Creek Drain,
West Rail at the Station Section 4 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 4 Arm** on **April 26, 2021** 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 4 Arm**

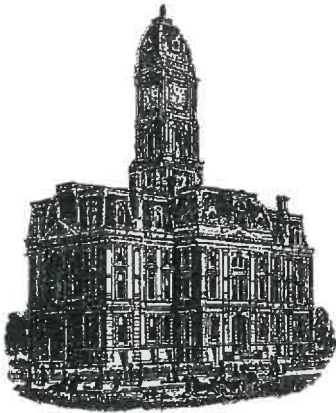
NOTICE

Notice is hereby given pursuant to Section 405 of the 1965 Indiana Drainage Code that this Board, prior to final adjournment on **April 26, 2021** has issued an order adopting the Schedule of Assessments, filed the same and made public announcement thereof at the hearing and ordered publication. If judicial review of the findings and order of the Board is not requested pursuant to Article Eight of this code within twenty (20) days from the date of this publication, the order shall be conclusive.

Hamilton County Drainage Board

Attest: Lynette Mosbaugh

ONE TIME ONLY



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

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

To: Hamilton County Drainage Board

November 29, 2022

Re: Williams Creek, West Rail at the Station Section 4

Attached are as-built, certificate of completion & compliance, and other information for West Rail at the Station Section 4 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 January 21, 2021. The report was approved by the Board at the hearing held April 26, 2021. (See Drainage Board Minutes Book 20, Pages 1-2)
The changes are as follows: the 12" RCP was lengthened from 910 feet to 935 feet. The 15" RCP was lengthened from 1010 feet to 1013 feet. The 18" RCP was shortened from 377 feet to 376 feet. The 21" RCP was shortened from 673 feet to 670 feet. The 24" RCP was lengthened from 31 feet to 40 feet. The 30" RCP was shortened from 198 feet to 197 feet. The 6" SSD was lengthened from 2,518 feet to 2,783 feet. The length of the drain due to the changes described above is now **6,014 feet**. It should be noted that the Osborn & Collins #2 Drain – Charles Osborn Arm 3 from Sta. 0 to Sta 15+91 was removed with this project.


The non-enforcement was approved by the Board at its meeting on April 26, 2021, and recorded under instrument #2022015012.

The following sureties were guaranteed by Nationwide Mutual Insurance Company and released by the Board on its November 28, 2022, meeting.

Bond-LC No: 7901052458
Amount: \$219,357.84
For: Storm Sewers & SSD
Issue Date: March 16, 2021

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 4

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.

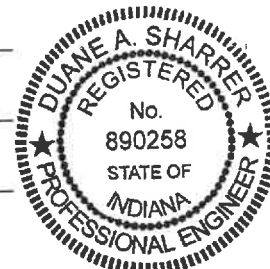
Signature:  Date: 5/9/2022

Type or Print Name: Duane Sharrer

Business Address: 10505 North College Ave.

Indianapolis, IN 46280

Telephone Number: 317-846-6611



INDIANA REGISTRATION NUMBER

890258

RECORD DRAWINGS FOR WEST RAIL

AT THE STATION SECTION FOUR

A SUBDIVISION IN WESTFIELD, INDIANA

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

HAMILTON COUNTY

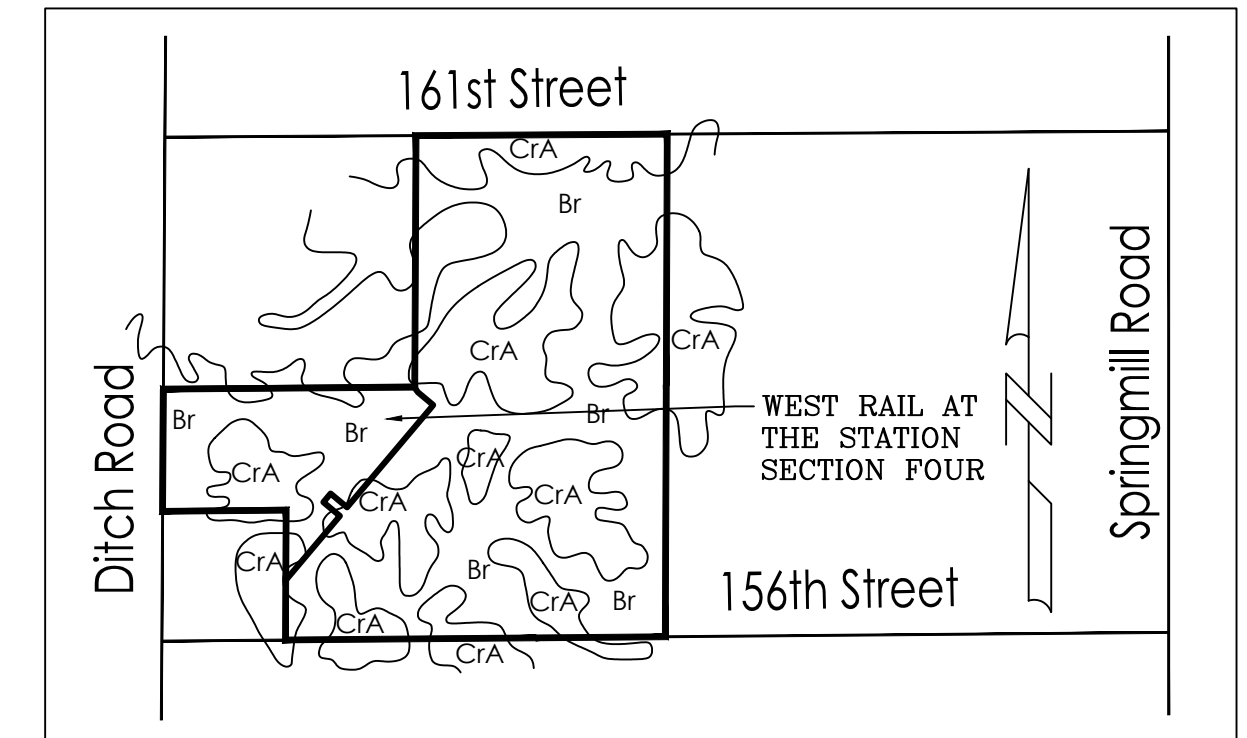
ALL CONTRACTORS SHALL REVIEW CITY OF WESTFIELD STANDARDS AND SPECIFICATIONS PRIOR TO BIDDING ON THE PROJECT. ADDITIONAL SPECIFICATIONS, NOT INCLUDED IN THIS SET OF PLANS, MAY BE REQUIRED. STANDARDS CAN BE FOUND AT:
www.westfield.in.gov/egoc/apps/document/center.egov?view=item;id=50

PLANS PREPARED FOR
 BEAZER HOMES OF INDIANA, LLP
 9405 DELEGATES ROW
 INDIANAPOLIS, INDIANA 46240
 TELEPHONE: (317) 574-1950
 CONTACT PERSON: CHAD OLDHAM
 EMAIL: CHAD.OLDHAM@BEAZER.COM

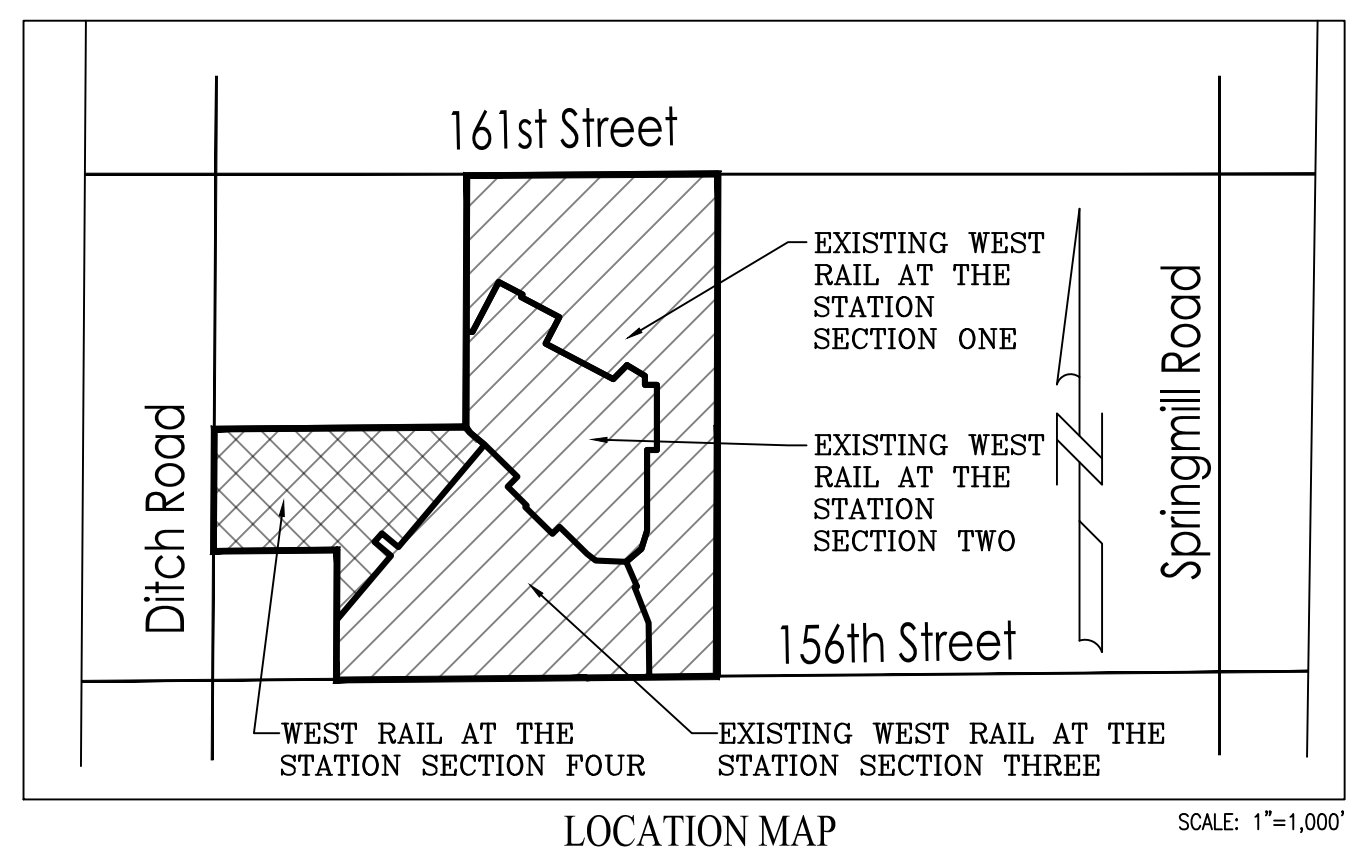
PLANS PREPARED BY
 WEIHE ENGINEERS, INC.
 10505 N. COLLEGE AVE.
 INDIANAPOLIS, INDIANA 46280
 TELEPHONE: (317) 846-6611
 FAX: (317) 843-0546
 CONTACT PERSON: JIM PENCE
 EMAIL: PENCEJ@WEIHE.NET

SHEET INDEX	
SHEET NO.	DESCRIPTION
C001	COVER SHEET
E100-E101	EXISTING CONDITIONS / DEMOLITION PLAN
E200-E201	PRE-STORMWATER POLLUTION PREVENTION PLAN
E202-E203	POST-STORMWATER POLLUTION PREVENTION PLAN
E204-E205	STORMWATER POLLUTION PREVENTION DETAILS & SPECS
C300-C301	DEVELOPMENT PLAN
E302-E303	EMERGENCY FLOOD ROOFING PLAN
E304-E305	SITE DIMENSION PLAN
E400-E401	STREET PLAN & PROFILE
E402	ENTRANCE DETAIL
E403	INTERSECTION DETAILS
E404-E406	STREET DETAILS AND SPECIFICATIONS
E407	TRAFFIC CONTROL/SIGNAGE/STREET LIGHT/SUMP PLAN
C500-C501	SANITARY SEWER PLAN & PROFILE
E502	SANITARY SEWER DETAILS
C600-C601	STORM SEWER PLAN & PROFILES
E602-E604	STORM SEWER DETAILS & SPECIFICATIONS
C700-C701	WATER MAIN PLAN
E702-E703	WATER MAIN DETAILS
E800	GENERAL SPECIFICATIONS
L100	LANDSCAPE PLANS

DESIGN DATA
 LOTS = 34
 ACRES = 18.81± AC.
 DENSITY = 1.81 LOTS/ACRE

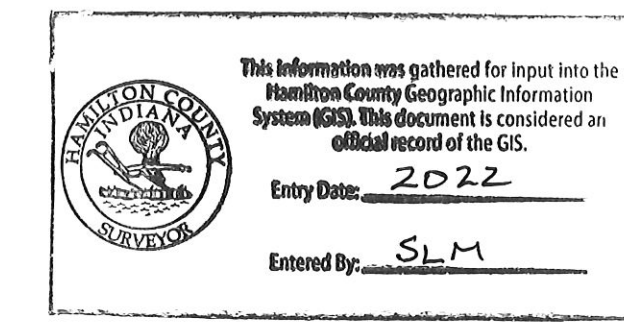
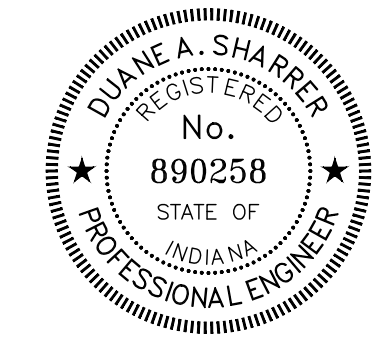


- SOILS MAP SOILS TYPE LEGEND**
- BROOKSTON SILTY CLAY LOAM- Br
 CROSBY SILT LOAM, 0 TO 2% SLOPES C/A
- THIS SOIL IS DARK GREYISH BROWN, SILTY IN TEXTURE. IT IS DEEP AND VERY POORLY DRAINED WITH MODERATE PERMEABILITY. IT HAS HIGH AVAILABLE WATER FOR PLANT GROWTH AND HIGH ORGANIC MATTER CONTENT. IT HAS 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 FOUR, 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 GREYISH 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 FOUR, 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.



- 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 #18057C01206, 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 RIGHTS 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.

RECORD DRAWING
 6/8/2022
 DUANE A. SHARRER P.E. 890258

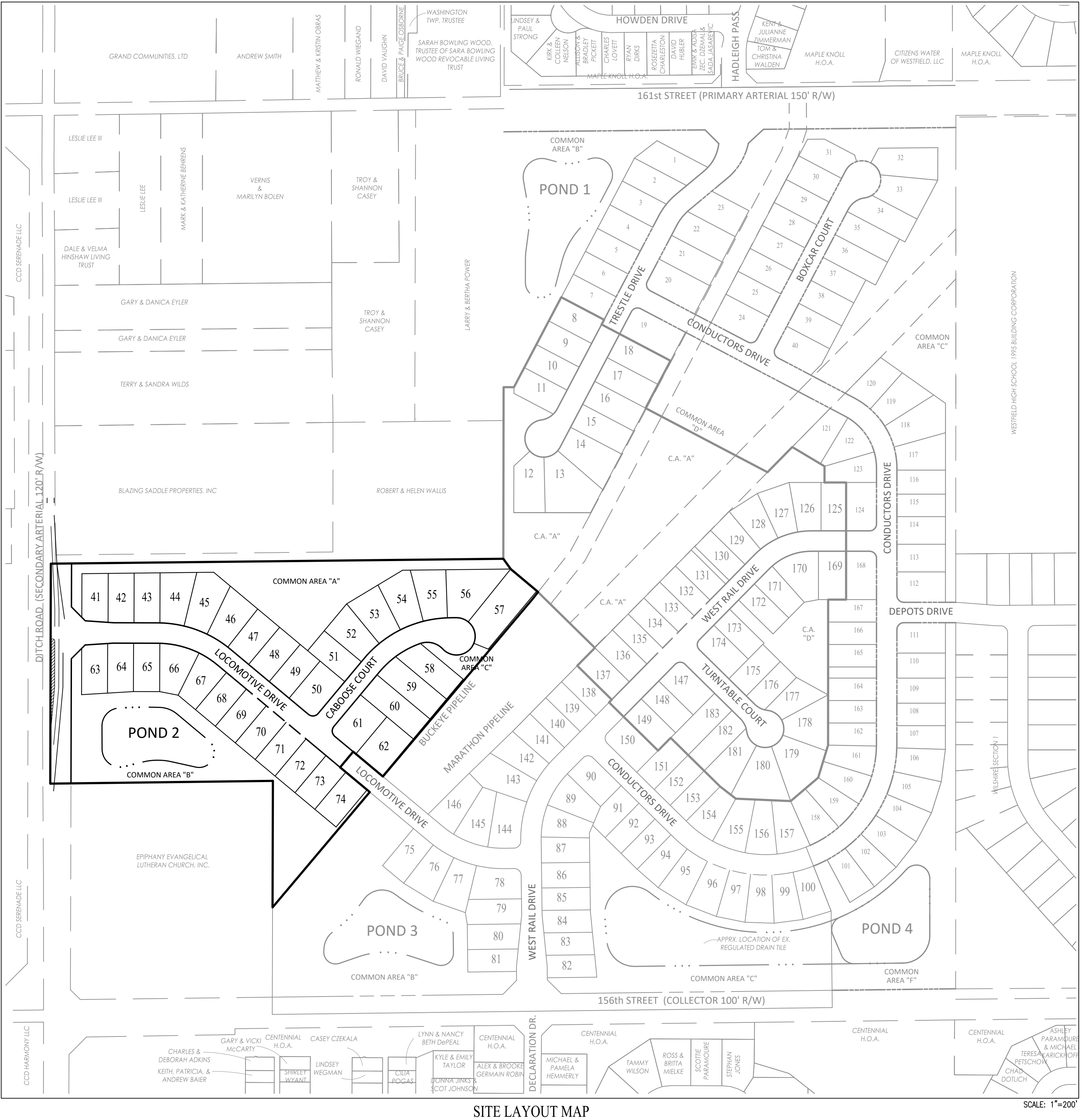


811
 Know what's below.
 Call before you dig.
 Within Indiana Call
 811 or 800-382-5544
 24 Hours a Day, 7 Days a Week.
 PER INDIANA STATE LAW IC 8-1-26,
 IT IS AGAINST THE LAW TO EXCAVATE
 WITHOUT NOTIFYING THE UNDERGROUND
 LOCATION SERVICE TWO (2) WORKING
 DAYS BEFORE COMMENCING WORK.

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
2726 EAST 171ST STREET
WESTFIELD, IN 46074
317-804-3170 | WESTFIELD PRE-CONSTRUCTION
ATTENTION: JOHN RANKIN
2706 E. 171ST STREET
WESTFIELD, INDIANA 46074
317-804-3147 | WESTFIELD G.I.S.
ATTENTION: LEANE HEIBER
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
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 JR STREET
INDIANAPOLIS, IN 46202
317-927-4684 |
| HAMILTON COUNTY HIGHWAY DEPT.
ATTENTION: DAVE LUCAS
1700 SOUTH 10TH STREET
NOBLESVILLE, IN 46060
317-773-7770 | AT&T (TELEPHONE)
ATTENTION: BRIAN WENTE
240 NORTH MERIDIAN STREET
INDIANAPOLIS, IN 46204
317-610-5440 | CITIZENS ENERGY GROUP/CWA AUTHORITY, INC.
2150 DR. MARTIN LUTHER KING JR STREET
INDIANAPOLIS, IN 46202
CONTACT: BRAD HOSTETLER
317-927-4351 |
| BUCKEYE PARTNERS, L.P.
ATTENTION: JANA OLTHOFF
5521 W. LINCOLN HIGHWAY
SUITE 305
CROWN POINT, IN 46307
219-796-8226 | WESTFIELD FIRE DEPARTMENT
ATTENTION: JIM ROBERTS
17535 DARTWOOD ROAD
WESTFIELD, INDIANA 46074
317-804-3307 | WESTFIELD-WASHINGTON SCHOOL CORP.
ATTENTION: JOE MONTALONE
1143 EAST 181ST STREET
WESTFIELD, INDIANA 46074
317-867-8045 |
| HAMILTON COUNTY SURVEYOR'S OFFICE
ATTENTION: SAMUEL CLARK
1 HAMILTON COUNTY SQUARE, STE. 188
NOBLESVILLE, IN 46060
317-776-8495 | METRONET
ATTENTION: MARC HILL
12415 OLD MERIDIAN STREET
CARMEL, IN 46032
317-670-7995 | COMCAST CABLE
ATTENTION: EARL SMALL JR.
5330 EAST 65TH STREET
INDIANAPOLIS, IN 46220
317-776-1161 |
| | | DUKE ENERGY (ELECTRIC)
ATTENTION: JESSI HERRINGTON
16475 SOUTHPARK DRIVE
WESTFIELD, IN 46074
317-776-5365 |



LOCATION: W:\2019\W150389\Section 4\Engineering\submittals\AB_Convert\AB_C001 Title_Sheet.dwg
 DATE/TIME: September 14, 2022 4:04:20pm
 PLOTTED BY: Jmmg

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.: W150389-4
 DATE: 10/23/2020
 BY: SCS
 CHECKED BY: SCS
 DATE: 10/01/2020

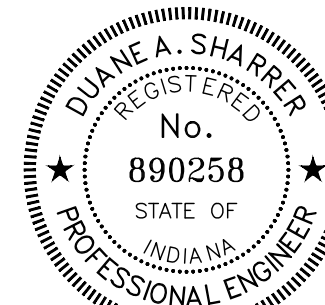
REVISIONS AND ISSUES:
 01/07/2020 REVISED PER AGENCY COMMENTS
 02/07/2021 REVISED PER CITY OF WESTFIELD COMMENTS
 02/07/2021 REVISED PER CITY OF WESTFIELD COMMENTS
 02/08/2021 REVISED PER CITY COMMENTS
 02/09/2021 REVISED PER CITY COMMENTS
 02/09/2021 REVISED PER CITY COMMENTS
 02/09/2021 AS-BUILT

DUANE A. SHARRER
 REGISTERED PROFESSIONAL ENGINEER
 No. 890258
 STATE OF INDIANA
 DUANE A. SHARRER P.E. 890258

WEST RAIL AT THE STATION SECTION 4
 BEAZER HOMES INDIANA, LLP
 COVER SHEET
 Part of Section 10, Township 18 North, Range 3 East, Washington Township, Hamilton County, Indiana

SHEET NO. **C001**
 PROJECT NO. **W150389-4**

RECORD DRAWING
DEVELOPMENT PLAN AS-BUILTS
PADS AND SWALES ONLY
6/8/2022
Duane A. Sharrer
DUANE A. SHARRER P.E. 890258



- AS-BUILT INFORMATION
- BUILT AS PLANNED
- AS-BUILT SPOT ELEVATION

DATE OF LAST FIELDWORK: 6/8/2022

MATCH C301
LINE C300

MATCH C301
LINE C300

COMMON AREA "A"

COMMON AREA "B"

EXISTING SECTION 3



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 INLET
- TOP OF CASTING
- INVERT
- RCP
- M.H.
- STRUCTURE
- DRAINAGE EASEMENT
- DRAINAGE, UTILITY AND SEWER EASEMENT
- LANDSCAPING EASEMENT
- CONCRETE END SECTION
- MATCH EXISTING
- HIGH PRESSURE PETROLEUM PRODUCTS PIPELINE
- TYP. PROP. = TYPICAL PROPOSED
- EX. = EXISTING
- R. = RADIUS
- VAR. = VARIABLE WIDTH
- M.L.A.G. = MINIMUM LOWEST ADJACENT GRADE
- R.O.W. = RIGHT-OF-WAY
- B-B = BACK OF CURB
- B60.4 = PAD ELEV.
- = EMERGENCY FLOOD ROUTE
- B.S.L. = BUILDING SETBACK LINE
- HP = HIGH POINT
- ADA = ADA RAMP
- FH = FIRE HYDRANT
- = PROPOSED 8' ASPHALT PATH
- = STREET LIGHT

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.
- THERE 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 PLAN FOR MORE INFORMATION.

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
- 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.

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 WILL 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 COMPACTION 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.

REAR YARD SSD LATERAL PLAN DETAIL

FRONT YARD SSD LATERAL PLAN DETAIL

SPILLWAY DETAIL NOT TO SCALE

LOCATION:	TOP OF BERM	100YR ELEV.	SPILLWAY ELEV.	SPILLWAY WIDTH
POND 2	914.8	911.51	914.0	30'

811 Know what's below. Call before you dig.

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

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

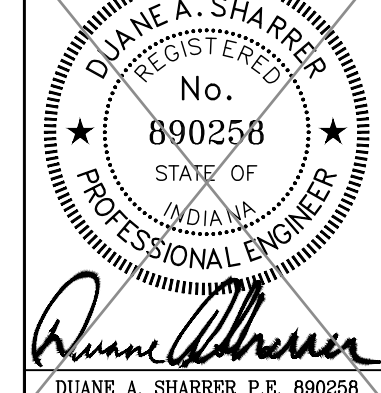
SCALE: 1" = 50'

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



PROJECT NO.:	W150389-4
DWG. NAME:	AS-BUILT DEVELOPMENT PLAN
DESIGNED BY:	MS
DRAWN BY:	MS
CHECKED BY:	MS
DATE:	10/01/2020

DATE:	10/23/2020	REVISION:	AS-BUILT
DATE:	07/23/2021	REVISION:	REVISED PER CITY OF WESTFIELD COMMENTS
DATE:	02/07/2021	REVISION:	REVISED PER CITY OF WESTFIELD COMMENTS
DATE:	02/08/2021	REVISION:	REVISED PER CITY COMMENTS
DATE:	02/08/2021	REVISION:	REVISED PER CITY COMMENTS
DATE:	02/08/2021	REVISION:	REVISED PER CITY COMMENTS
DATE:	02/08/2021	REVISION:	REVISED PER CITY COMMENTS
DATE:	02/08/2021	REVISION:	REVISED PER CITY COMMENTS
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DATE:	02/08/2021	REVISION:	REVISED PER CITY COMMENTS



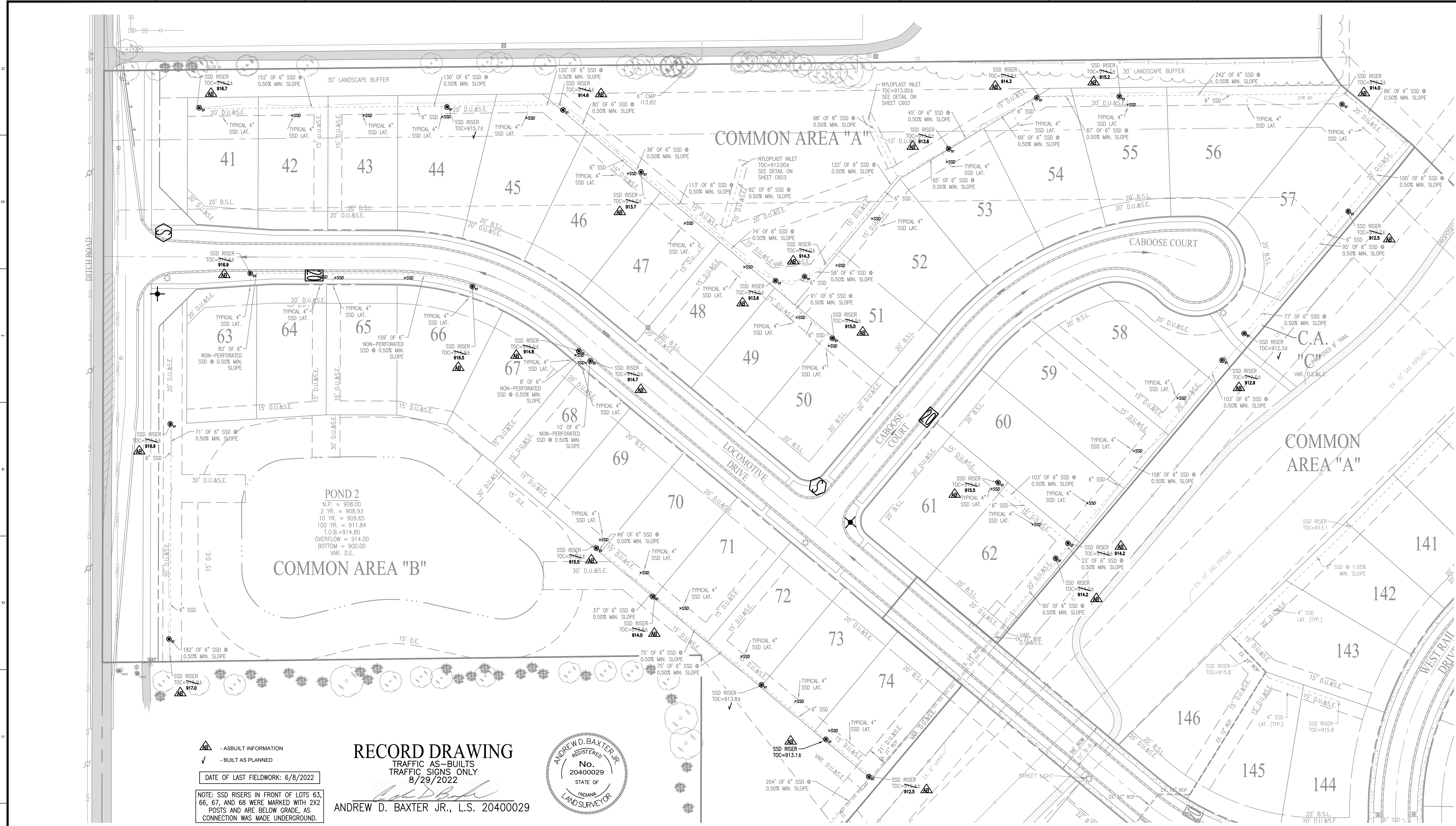
PREPARED FOR:
WEST RAIL AT THE STATION SECTION 4
BEAZER HOMES INDIANA, LLP
DEVELOPMENT PLAN
Part of Section 10, Township 18 North, Range 3 East, Washington Township, Hamilton County, Indiana

SHEET NO.
C301

PROJECT NO.
W150389-4

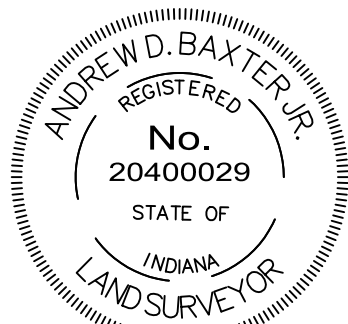
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DATE/TIME: September 14, 2022 - 8:43am
PLOTTED BY: [Name]

LOCATION: H:\2015\W150389\Section 4\Engineering\submittals\AS-Built\Traffic Control Plan.dwg
 DATE/TIME: September 14, 2022 - 8:43am
 PLOTTED BY: [Name]



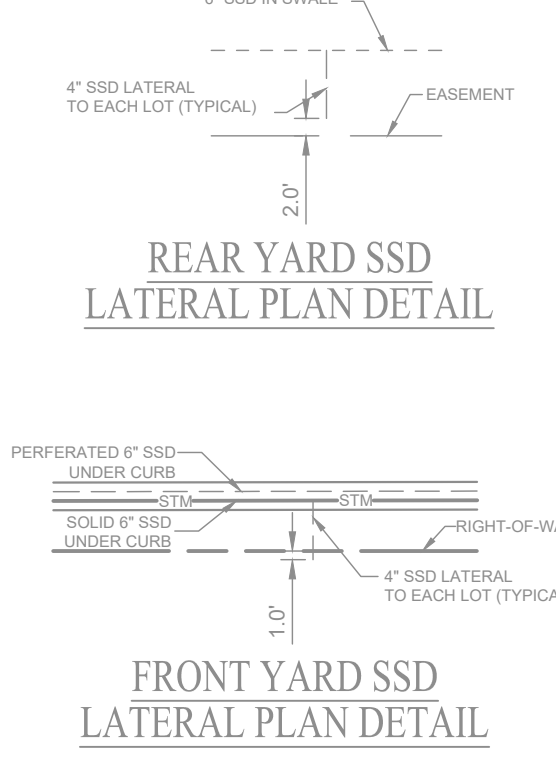
AS-BUILT INFORMATION
 BUILT AS PLANNED
 DATE OF LAST FIELDWORK: 6/8/2022
 NOTE: SSD RISERS IN FRONT OF LOTS 63, 66, 67, AND 68 WERE MARKED WITH 2X2 POSTS AND ARE BELOW GRADE, AS CONNECTION WAS MADE UNDERGROUND.

RECORD DRAWING
 TRAFFIC AS-BUILTS
 TRAFFIC SIGNS ONLY
 8/29/2022
 Andrew D. Baxter Jr.
 ANDREW D. BAXTER JR., L.S. 20400029



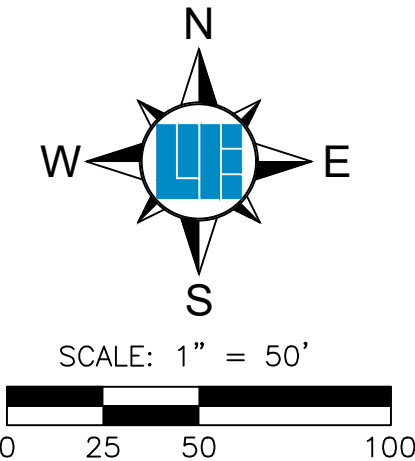
TRAFFIC LEGEND

SYMBOL	TYPE	SPECIFICATION	QUANTITY
	SPEED LIMIT (20 MPH)	FIG. P-15D	2 ✓
	STOP SIGN	R1-1	2 ✓
	STREET SIGN	FIG. P-15D	2 ✓
	STREET LIGHT	SEE DETAIL	3



- LEGEND**
- RIGHT-OF-WAY LINE
 - STORM SEWER LINE
 - SWALE
 - SSD
 - SANITARY SEWER LINE
 - SANITARY SEWER MANHOLE
 - STRUCTURE
 - DRAINAGE EASEMENT
 - DRAINAGE, UTILITY AND SEWER EASEMENT
 - LANDSCAPING EASEMENT
 - CONCRETE END SECTION
 - MATCH EXISTING
 - HIGH PRESSURE PETROLEUM PRODUCTS PIPELINE
 - TYP. PROPOSED
 - EX. EXISTING
 - R. RADIUS
 - VAR. VARIABLE WIDTH
 - MIN. MINIMUM LOWEST ADJACENT GRADE
 - ROW. RIGHT-OF-WAY
 - B-C. BACK OF CURB
 - B.S.L. BUILDING SETBACK LINE
 - HP. HIGH POINT
 - ADA ADA RAMP
 - ME. FIRE HYDRANT

NOTE: ALL SSD IN SWALES OF LESS THAN 2% SLOPE TO BE 6" DOUBLE WALL-SMOOTH WALL PERFORATED PLASTIC PIPE PER HAMILTON COUNTY SURVEYOR OFFICE DETAIL D-16.



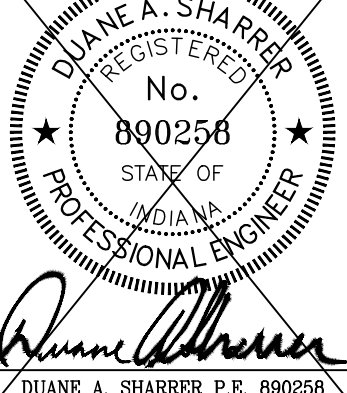
811
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 24 Hours a Day, 7 Days a Week
 PER INDIANA STATE LAW IC 8-1-26,
 IT IS AGAINST THE LAW TO EXCAVATE
 WITHOUT NOTIFYING THE UNDERGROUND
 LOCATION SERVICE TWO (2) WORKING
 DAYS BEFORE COMMENCING WORK.

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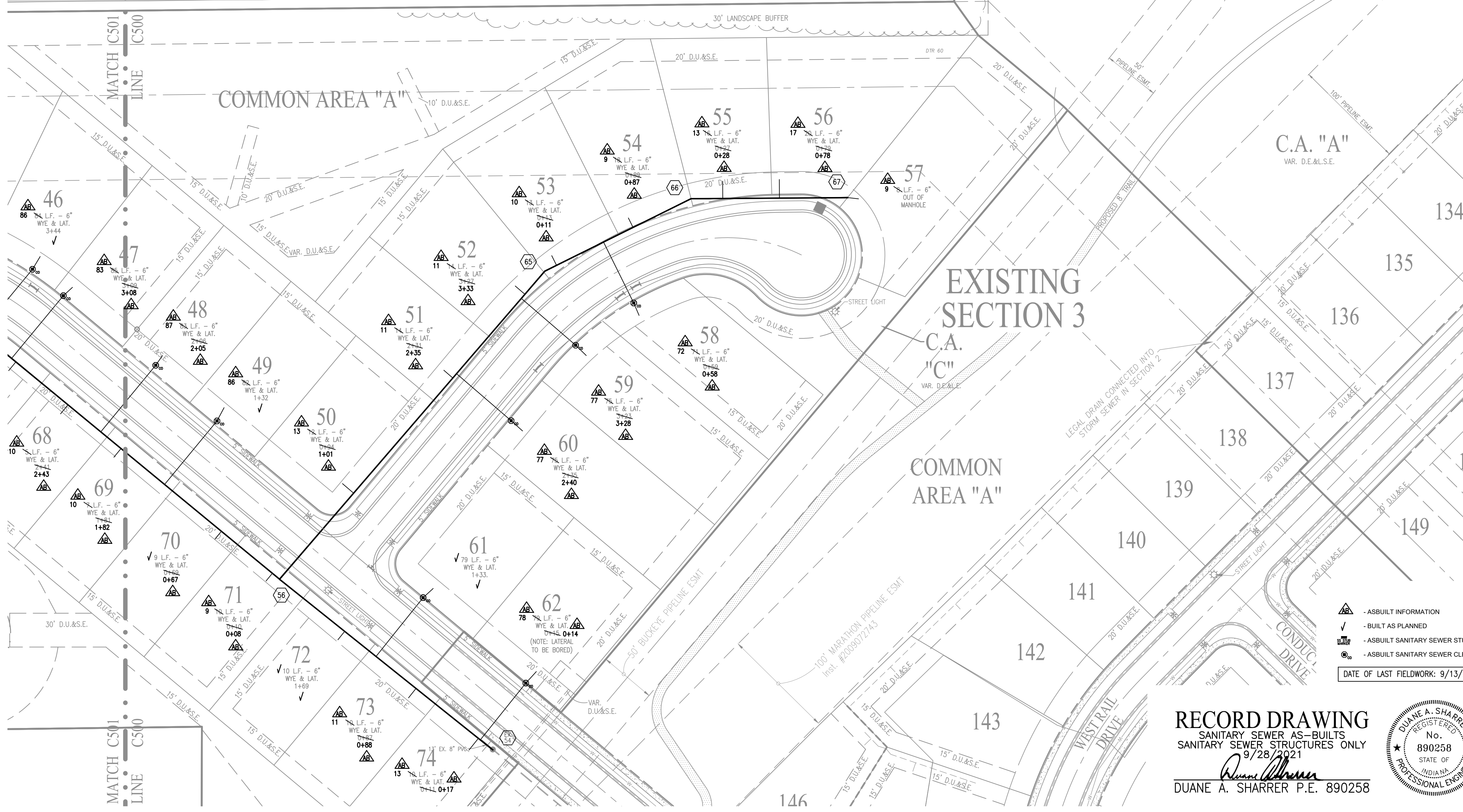
WEIHE ENGINEERS
 Land Surveying | Civil Engineering
 Landscape Architecture

PROJECT NO.: W150389-4
 DWG. NAME: AS-BUILT TRAFFIC CONTROL FLOORING
 DESIGNER: [Name]
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 DATE: 10/01/2020

REVISIONS AND ISSUES
 10/23/2020 [Name] [Description]
 07/27/2021 [Name] [Description]
 02/07/2021 [Name] [Description]
 02/08/2021 [Name] [Description]
 02/09/2021 [Name] [Description]
 02/19/2021 [Name] [Description]



PREPARED FOR:
WEST RAIL AT THE STATION SECTION 4
 BEAZER HOMES INDIANA, LLP
 TRAFFIC CONTROL/SIGNAGE/STREET LIGHT/SSD PLAN
 Part of Section 10, Township 18 North, Range 3 East, Washington Township, Hamilton County, Indiana
 SHEET NO. **C407**
 PROJECT NO. **W150389-4**



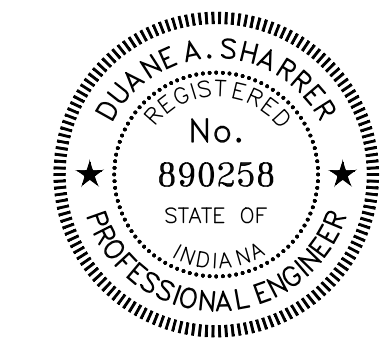
- NOTES:**
1. THE LOWEST FLOOR ELEVATION RECEIVING GRAVITY SERVICE MUST BE A MIN. OF ONE FOOT ABOVE THE NEAREST MANHOLE TOP OF CASTING, UPSTREAM OR DOWNSTREAM, OR A GRINDER PUMP SHALL BE REQUIRED.
 2. ALL LATERALS TO BE INSTALLED WITH "TRACER WIRE" ON TOP OF THE PIPE THE ENTIRE LENGTH FROM THE SEWER MANHOLE TO THE CLEANOUT.
 3. ALL SANITARY SEWER STUBS MUST BE CAPPED WITH AN 8" CAP.
 4. FULL DEPTH GRANULAR BACKFILL SHALL BE INSTALLED ON ALL SEWER LATERAL STREET CROSSINGS & COMPACTED PER INDOT STANDARDS.
 5. MIN. SLOPES PER TEN STATE STANDARDS SHALL PREVAIL IN ALL CASES.
 6. ALL LATERALS ARE STATIONED FROM THE NEAREST DOWNSTREAM MANHOLE.
 7. ALL SANITARY SEWER MANHOLE PIPING TO MAINTAIN MORE THAN 100' SEPARATION FROM WATER WELLS.
 8. CONTRACTOR SHALL INSTALL LATERAL NO GREATER THAN 6 FEET BELOW PAD GRADE AT LATERAL END.
 9. MANHOLE STRUCTURES TO BE CONSTRUCTED TO REQUIRE ONE 4 INCH RISER RING, NO MORE, NO LESS TO MEET PLAN TOP OF CASTING ELEVATION.
 10. SANITARY SEWER LATERALS TO STOP NO CLOSER THAN 5 FEET AND NO GREATER THAN 7 FEET FROM THE BUILDING LINE. IF EXCAVATION IS REQUIRED PAST THE BUILDING LINE, EXCAVATED MATERIAL SHALL BE REPLACED AND COMPACTED TO 95% STANDARD PROCTOR. THIS IS INTENDED TO PREVENT ANY STRUCTURAL SETTLING WITHIN THE BUILDABLE AREA OF ALL LOTS. SANITARY LATERALS ARE TO BE INSTALLED AT NO GREATER THAN 45 DEGREE ANGLE COMING FROM THE MAIN.
 11. REFER TO SHEET C500 FOR DATA TABLE.
 12. FOR SANITARY SEWER AND WATER SPECIFICATIONS SEE CITIZENS WATER AND WASTEWATER SPECIFICATIONS AND STANDARDS FOR THE WESTFIELD SERVICE TERRITORY EFFECTIVE JANUARY 2020.
 13. ALL SANITARY SEWER LATERALS TO BE 6" PVC SDR 35 ASTM D 3034.

BENCHMARK INFORMATION

- BM - A DNR BRASS DISK SET IN THE TOP OF A CONCRETE POST, LEVEL WITH THE GROUND, STAMPED "M41 4" 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 - "M41" 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. = 914.34 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 678 FEET NORTH OF CENTERLINE OF 156TH STREET. ELEV. = 916.12 NAVD 88

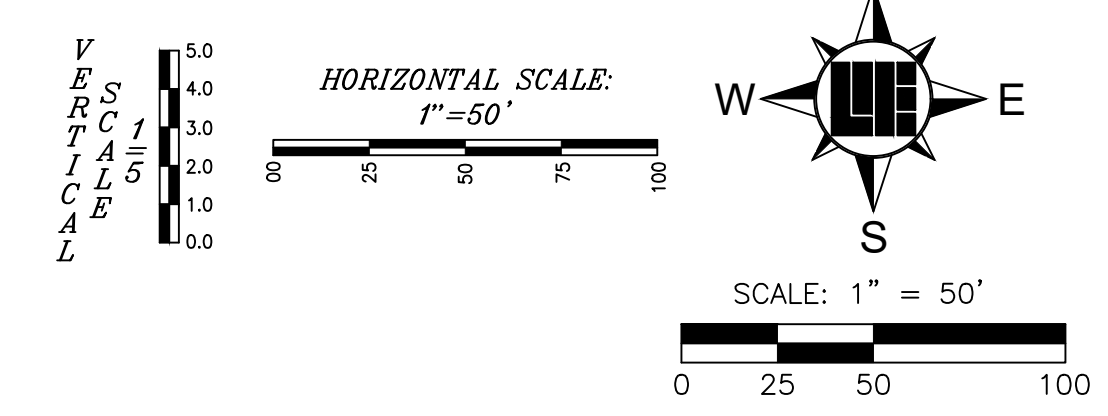
- ▲ - AS-BUILT INFORMATION
 - ✓ - BUILT AS PLANNED
 - ⊕ - AS-BUILT SANITARY SEWER STUB
 - ⊙ - AS-BUILT SANITARY SEWER CLEANOUT
- DATE OF LAST FIELDWORK: 9/13/2021

RECORD DRAWING
 SANITARY SEWER AS-BUILTS
 SANITARY SEWER STRUCTURES ONLY
 9/28/2021
 Duane A. Sharrer
 DUANE A. SHARRER P.E. 890258



PROFILE LEGEND

- EXISTING GRADE
- FINISHED GRADE
- GRANULAR BACKFILL



SANITARY SEWER STRUCTURE DATA TABLE

STRUCTURE NUMBER	STRUCTURE TYPE	TOP OF CASTING	CASTING TYPE	INVERT
54	EXISTING MANHOLE	915.94	NEENAH R-1772	INV IN = 903.22(NW) INV IN = 903.22(NW) INV OUT = 903.12(SE)
56	MANHOLE	915.79	NEENAH R-1772	INV IN = 904.40(NW) INV IN = 904.50(NE) INV OUT = 904.30(SE)
57	MANHOLE	916.83	NEENAH R-1772	INV IN = 906.17(W) INV OUT = 906.07(SE)
64	MANHOLE	917.47	NEENAH R-1772	INV OUT = 907.81(E)
65	MANHOLE	914.76	NEENAH R-1772	INV IN = 906.19(NW) INV OUT = 906.09(SW)
66	MANHOLE	915.55	NEENAH R-1772	INV IN = 906.95(E) INV OUT = 906.85(SW)
67	MANHOLE	916.44	NEENAH R-1772	INV OUT = 908.32(NW)

SANITARY SEWER PIPE DATA TABLE

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	SIZE	MATERIAL	LENGTH	SLOPE
56	54	8"	PVC	240'	0.45%
57	56	8"	PVC	371'	0.45%
58	57	8"	PVC	115'	0.45%
64	58	8"	PVC	226'	0.45%
65	56	8"	PVC	353'	0.45%
66	65	8"	PVC	145'	0.45%
67	66	8"	PVC	138'	1.00%

- 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
 - INVERT
 - REINFORCED CONCRETE PIPE
 - MANHOLE STRUCTURE
 - STR. D.E.
 - D.U.&S.E.
 - LE.
 - ME
 - HPPP
- TYP. PROP. EX. R. VAR. MLAG ROW B-B = TYPICAL PROPOSED EXISTING RADIUS VARIABLE WIDTH MINIMUM LOWEST ADJACENT GRADE RIGHT-OF-WAY BACK OF CURB
- 860.4 = PAD ELEV
- = EMERGENCY FLOOD ROUTE
- B.S.L. = BUILDING SETBACK LINE
- HP = HIGH POINT
- ▲ = ADA RAMP
- ⊕ = FIRE HYDRANT
- ⊙ = PROPOSED 8" ASPHALT PATH
- ☀ = STREET LIGHT

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.: W150389-4
 DWG. NAME: 8" SDR Sanitary Pipe/Day
 DESIGNER: SCS
 DESIGNER BY: MEN
 DRAWN BY: SCS
 DRAWN TAs: SCS
 CHECKED BY: SCS
 DATE: 10/01/2020

DATE: 10/23/2020
 02/27/2021
 02/07/2021
 02/08/2021
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 02/09/2021
 02/19/2021

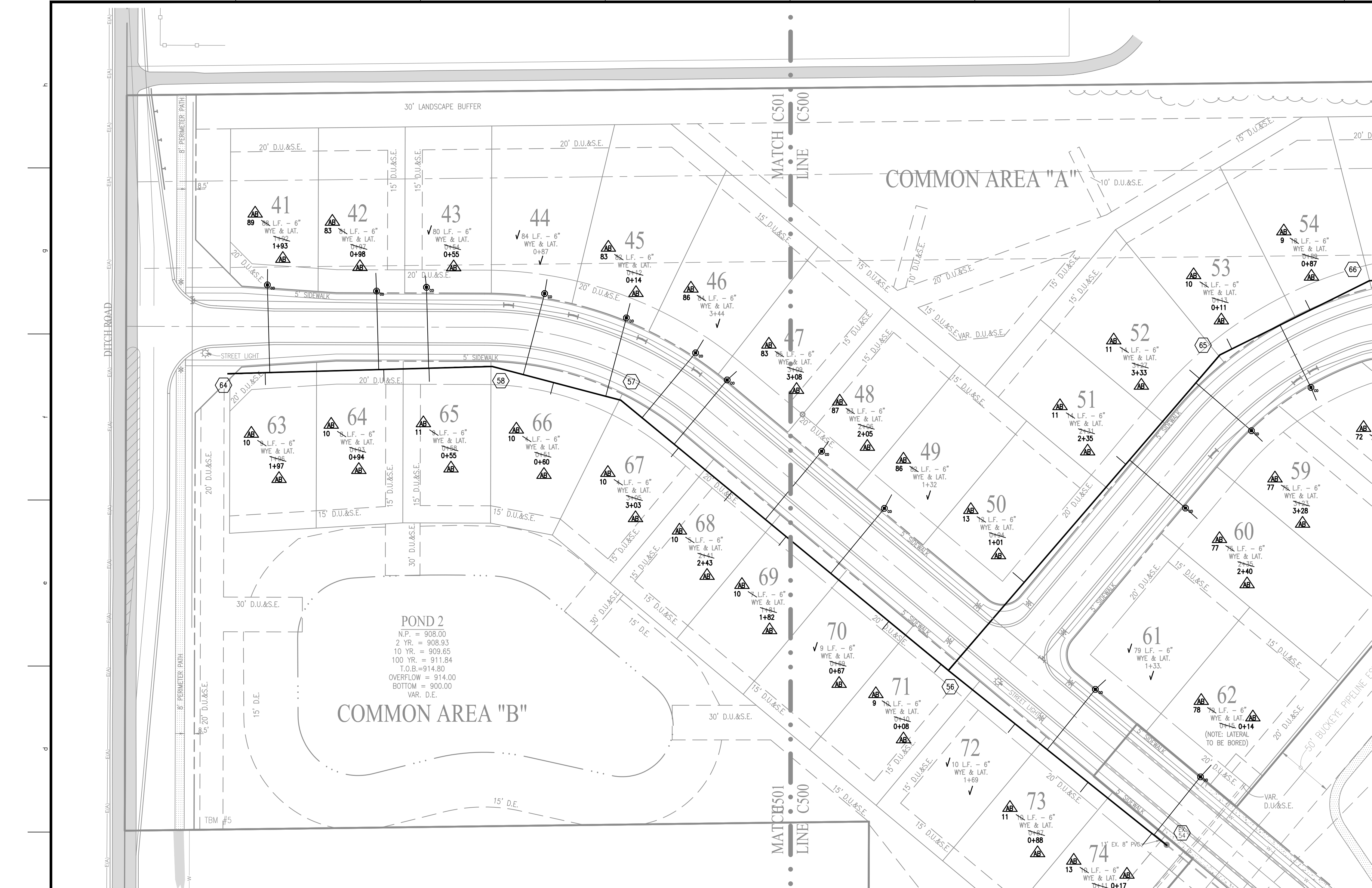
REVISIONS AND ISSUES
 REVISION PER AGENCY COMMENTS
 REVISION PER CITY OF WESTFIELD COMMENTS
 REVISION PER CITY OF WESTFIELD COMMENTS
 REVISION PER CITY COMMENTS
 REVISION PER CITY COMMENTS
 AS-BUILT

DUANE A. SHARRER
 REGISTERED PROFESSIONAL ENGINEER
 No. 890258
 STATE OF INDIANA
 Duane A. Sharrer
 DUANE A. SHARRER P.E. 890258

WEST RAIL AT THE STATION SECTION 4
 BEAZER HOMES INDIANA, LLP
 SANITARY SEWER PLAN & PROFILE
 Part of Section 10, Township 18 North, Range 3 East, Washington Township, Hamilton County, Indiana

SHEET NO. **C500**
 PROJECT NO. **W150389-4**

LOCATION: H:\2019\W150389\Section 4\Engineering\submittals\AS-Built\8" SDR Sanitary Pipe.dwg
 DATE/TIME: September 14, 2022 - 8:44am
 PLOTTED BY: [Name]



BENCHMARK INFORMATION

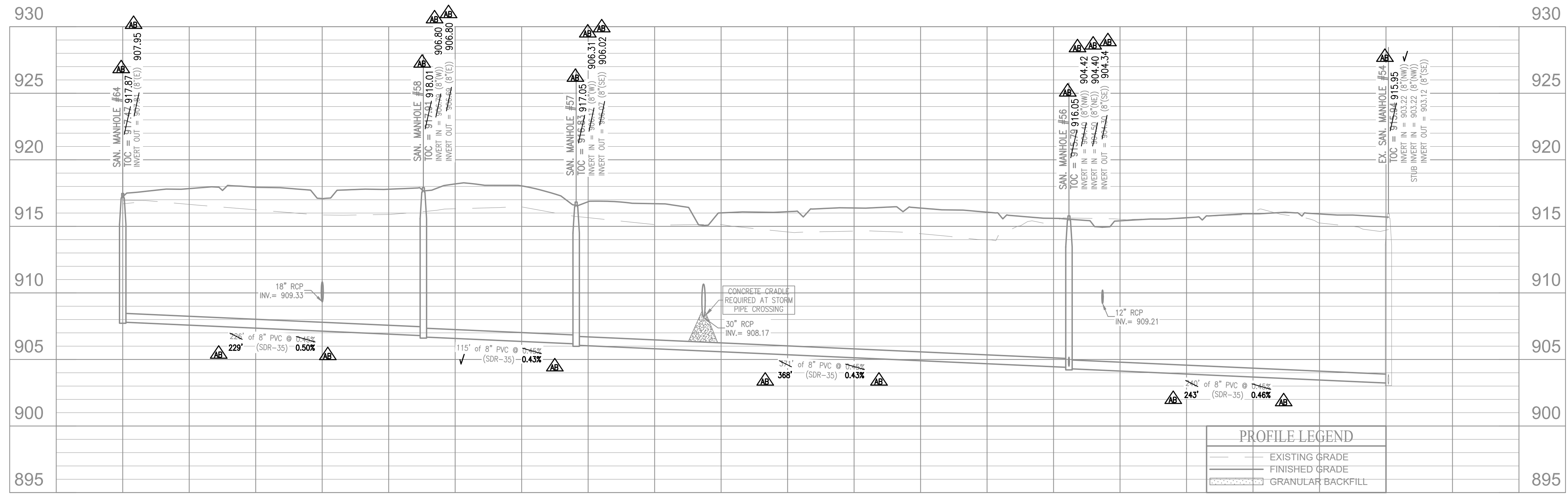
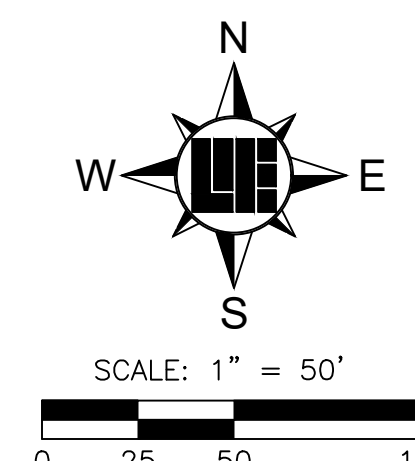
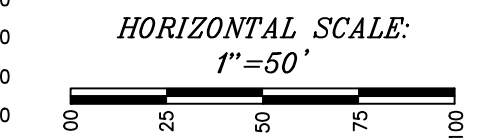
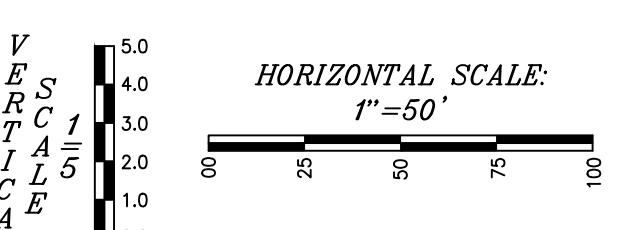
- BM - A DNR BRASS DISK SET IN THE TOP OF A CONCRETE POST, LEVEL WITH THE GROUND, STAMPED "HAM 41" LOCATED APPROXIMATELY 1,334 FEET WEST OF THE CENTERLINE OF DITCH ROAD AND ABOUT 14 FEET NORTH OF THE CENTERLINE OF 156TH STREET. STATE PLANE COORDINATES: N1736106.52 E181985.25 ELEV. = 917.54 NAVD 88
- T.B.M. 1 - "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 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 676 FEET NORTH OF CENTERLINE OF 156TH STREET. ELEV. = 918.12 NAVD 88

NOTES:

- THE LOWEST FLOOR ELEVATION RECEIVING GRAVITY SERVICE MUST BE A MIN. OF ONE FOOT ABOVE THE NEAREST MANHOLE TOP OF CASTING, UPSTREAM OR DOWNSTREAM, OR A GRINDER PUMP SHALL BE REQUIRED.
- ALL LATERALS TO BE INSTALLED WITH "TRACER WIRE" ON TOP OF THE PIPE THE ENTIRE LENGTH FROM THE SEWER MANHOLE TO THE CLEANOUT.
- ALL SANITARY SEWER STUBS MUST BE CAPPED WITH AN 8" CAP.
- FULL DEPTH GRANULAR BACKFILL SHALL BE INSTALLED ON ALL SEWER LATERAL STREET CROSSINGS & COMPACTED PER INDOT STANDARDS.
- MIN. SLOPES PER TEN STATE STANDARDS SHALL PREVAIL IN ALL CASES.
- ALL LATERALS ARE STATIONED FROM THE NEAREST DOWNSTREAM MANHOLE.
- ALL SANITARY SEWER MANHOLE PIPING TO MAINTAIN MORE THAN 100' SEPARATION FROM WATER WELLS.
- CONTRACTOR SHALL INSTALL LATERAL NO GREATER THAN 6 FEET BELOW PAD GRADE AT LATERAL END.
- MANHOLE STRUCTURES TO BE CONSTRUCTED TO REQUIRE ONE 4 INCH RISER RING, NO MORE, NO LESS TO MEET PLAN TOP OF CASTING ELEVATION.
- SANITARY SEWER LATERALS TO STOP NO CLOSER THAN 5 FEET AND NO GREATER THAN 7 FEET FROM THE BUILDING LINE. IF EXCAVATION IS REQUIRED PAST THE BUILDING LINE, EXCAVATED MATERIAL SHALL BE REPLACED AND COMPACTED TO 95% STANDARD PROCTOR. THIS IS INTENDED TO PREVENT ANY STRUCTURAL SUFFERING WITHIN THE BUILDABLE AREA OF ALL LOTS. SANITARY LATERALS ARE TO BE INSTALLED AT NO GREATER THAN 45 DEGREE ANGLE COMING FROM THE MAIN.
- REFER TO SHEET C500 FOR DATA TABLE.
- FOR SANITARY SEWER AND WATER SPECIFICATIONS SEE CITIZENS WATER AND WASTEWATER SPECIFICATIONS AND STANDARDS FOR THE WESTFIELD SERVICE TERRITORY EFFECTIVE JANUARY 2020.
- ALL SANITARY SEWER LATERALS TO BE 6" PVC SDR 35 ASTM D 3034.

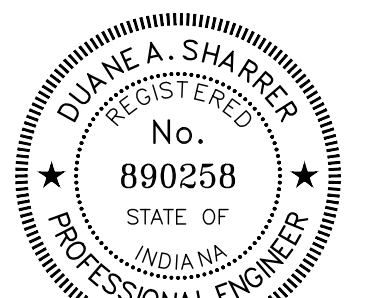
LEGEND

- 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
- INVERT
- RENFORCED CONCRETE PIPE
- MANHOLE
- STRUCTURE
- DRAINAGE EASEMENT
- DRAINAGE, UTILITY AND SEWER EASEMENT
- LANDSCAPING EASEMENT
- CONCRETE END SECTION
- MATCH EXISTING
- HPPPP
- HIGH PRESSURE PETROLEUM PRODUCTS PIPELINE
- TYP. PROP. EX. R. VAR. M.I.A.G. ROW B-I = TYPICAL PROPOSED EXISTING RADIUS VARIABLE WIDTH MINIMUM LOWEST ADJACENT GRADE RIGHT-OF-WAY BACK OF CURB
- 860.4 = PAD ELEV
- EMERGENCY FLOOD ROUTE
- B.S.L. = BUILDING SETBACK LINE
- HP = HIGH POINT
- ADA RAMP
- FIRE HYDRANT
- PROPOSED 8" ASPHALT PATH
- STREET LIGHT



- PROFILE LEGEND**
- EXISTING GRADE
 - FINISHED GRADE
 - GRANULAR BACKFILL

RECORD DRAWING
 SANITARY SEWER AS-BUILTS
 SANITARY SEWER STRUCTURES ONLY
 9/28/2021
 DUANE A. SHARRER P.E. 890258



- AS-BUILT INFORMATION
 - BUILT AS PLANNED
 - AS-BUILT SANITARY SEWER STUB
 - AS-BUILT SANITARY SEWER CLEANOUT
- DATE OF LAST FIELDWORK: 9/13/2021

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

LOCATION: H:\2015\W150389\Section A\Engineering\submittal\AS-Built\AS-Built\SSS\Sanitary_PIP.dwg
 DATE/TIME: September 14, 2022 - 8:44am
 PLOTTED BY: [Name]

10505 N. College Avenue
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 www.weihe.net
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 800 | 452 - 6408
 317 | 843 - 0546 fax

WEIHE ENGINEERS
 Land Surveying | Civil Engineering
 Landscape Architecture

PROJECT NO.: W150389-4
 DWG. NAME: SS SDR 35 Sanitary PIP.dwg
 DESIGN DATE: 02/07/2021
 DRAWN BY: J.S.S.
 CHECKED BY: SCS
 DATE: 10/01/2020

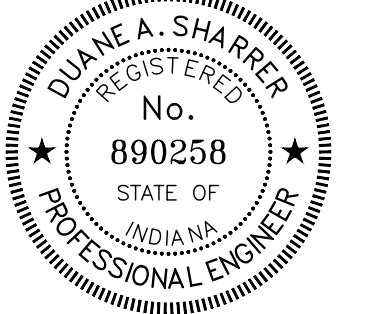
REVISIONS AND ISSUES
 10/23/2020
 07/27/2021
 02/08/2021
 02/18/2021
 02/22/2021
 02/23/2021
 02/19/2021

DUANE A. SHARRER REGISTERED PROFESSIONAL ENGINEER No. 890258 STATE OF INDIANA

WEST RAIL AT THE STATION SECTION 4
 BEAZER HOMS INDIANA, LLP
 SANITARY SEWER PLAN & PROFILE
 Part of Section 10, Township 18 North, Range 3 East, Washington Township, Hamilton County, Indiana

SHEET NO. **C501**
 PROJECT NO. **W150389-4**

RECORD DRAWING
 STORM SEWER AS-BUILTS
 STORM SEWER STRUCTURES ONLY
 9/28/2021
 Duane A. Sharrer
 DUANE A. SHARRER P.E. 890258

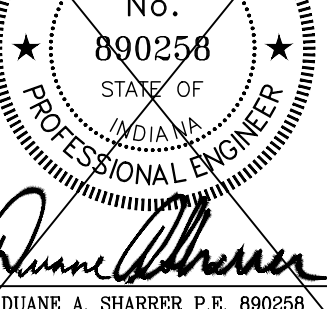


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 ALLAN H. WEIHE, P.E., L.S. - FOUNDER

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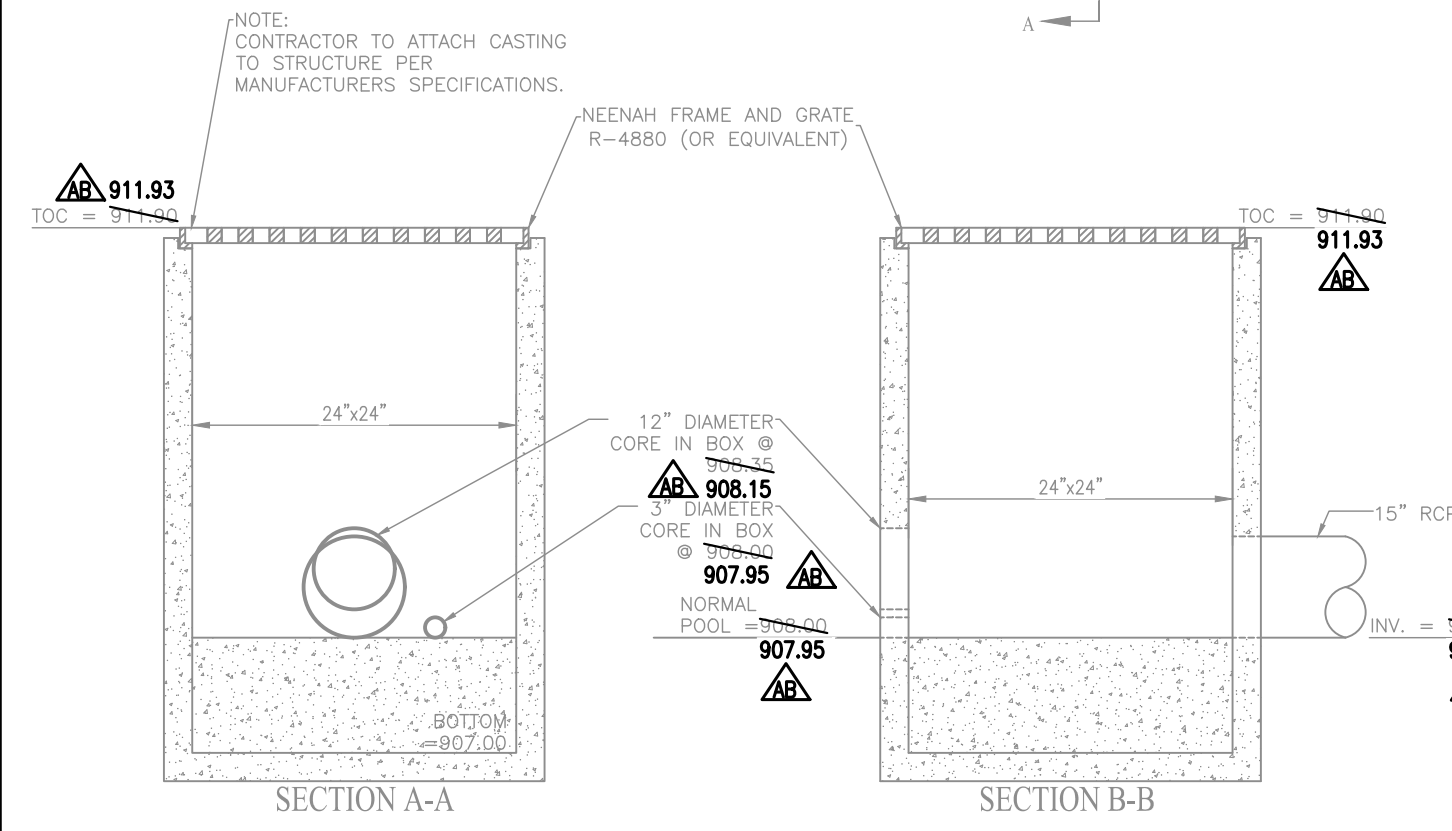
PROJECT NO.: W150389-4
 DWG NAME: 02/28/2021
 DESIGN DATE: 02/28/2021
 DESIGNER: M.E.
 DRAWN BY: M.E.
 CHECKED BY: SCS
 DATE: 10/01/2020

REVISIONS AND ISSUES
 01/20/2020 REVISED PER AGENCY COMMENTS
 01/22/2020 REVISED PER CITY OF WESTFIELD COMMENTS
 02/07/2021 REVISED PER CITY OF WESTFIELD COMMENTS
 02/08/2021 REVISED PER CITY COMMENTS
 02/08/2021 REVISED PER CITY COMMENTS
 02/23/2021 REVISED PER CITY COMMENTS
 03/19/2021 AS-BUILTS



WEST RAIL AT THE STATION SECTION 4
 BEAZER HOMES INDIANA, LLP
 STORM SEWER PLAN & PROFILE
 Part of Section 10, Township 18 North, Range 3 East, Washington Township, Hamilton County, Indiana

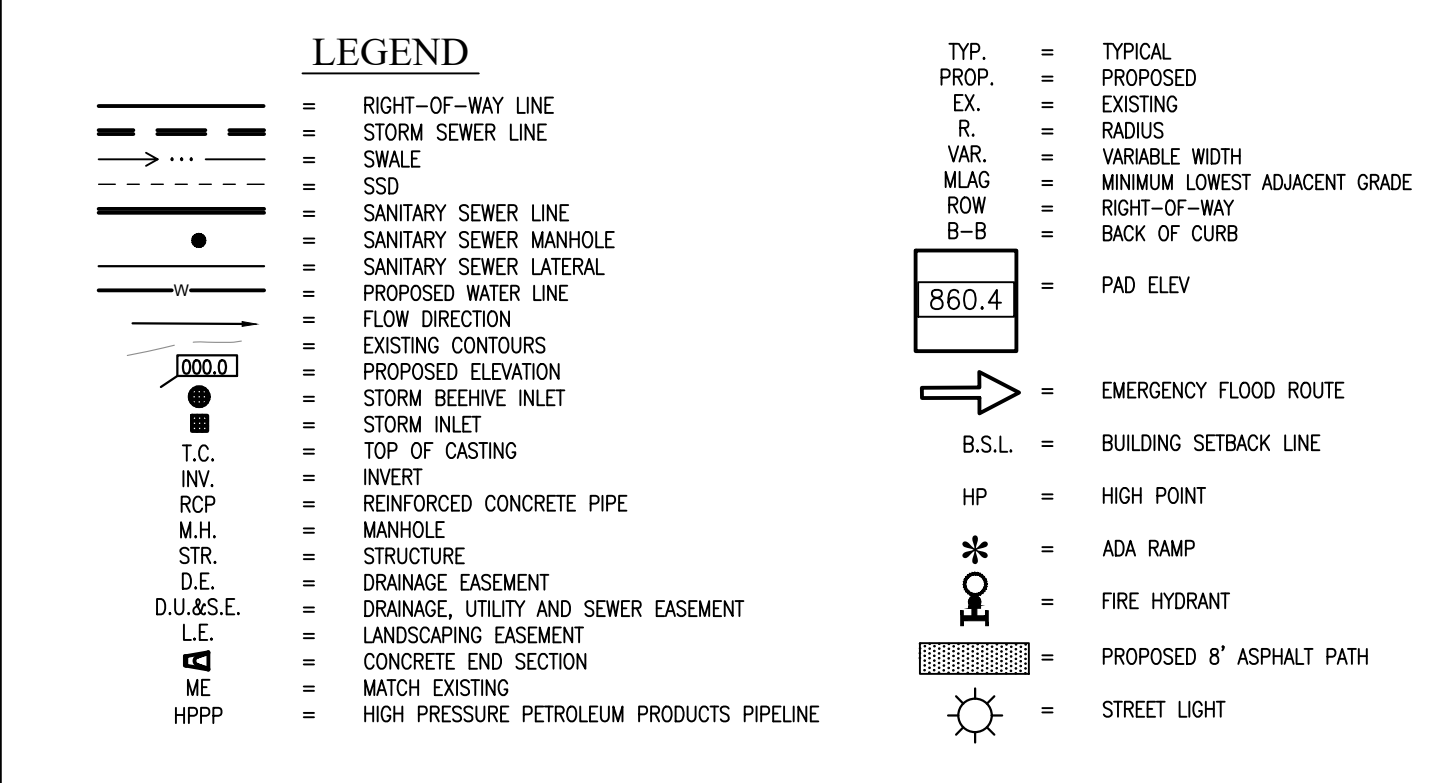
PREPARED FOR:
C600
 PROJECT NO.: W150389-4



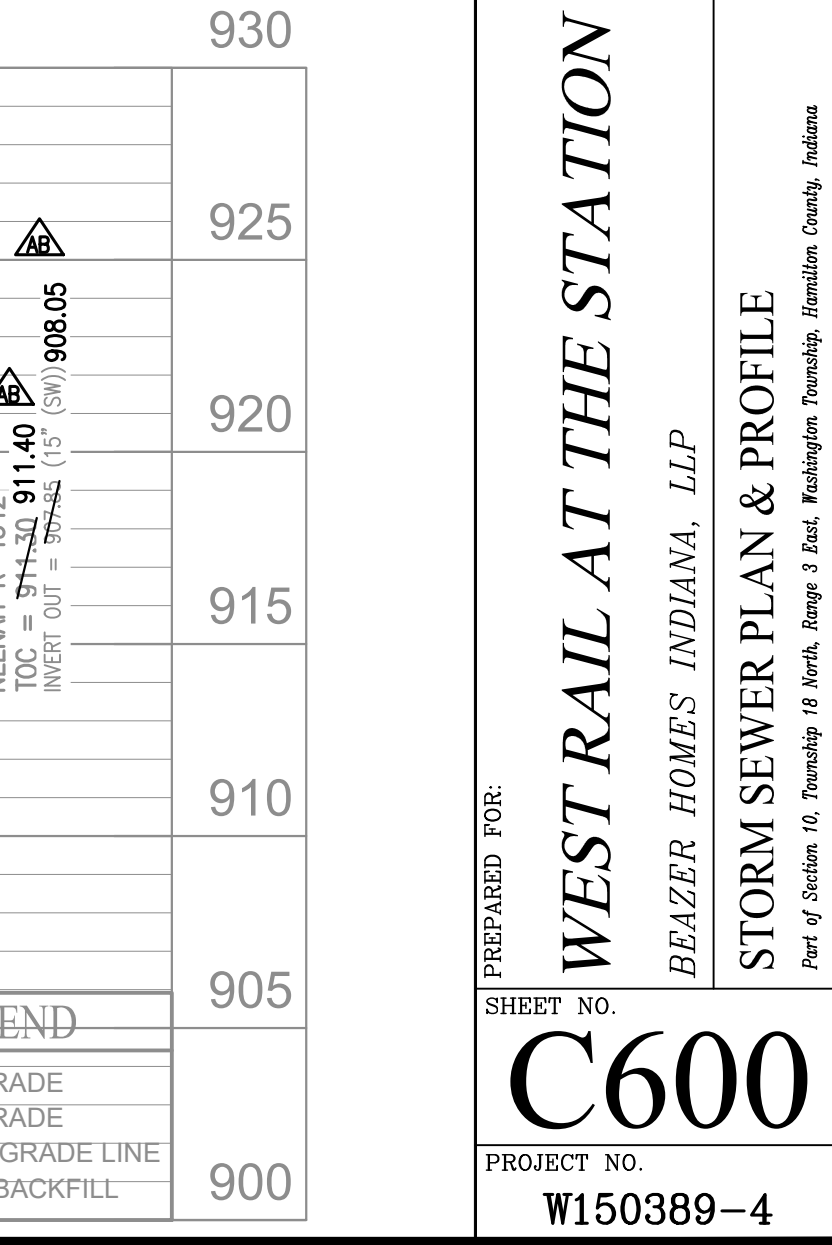
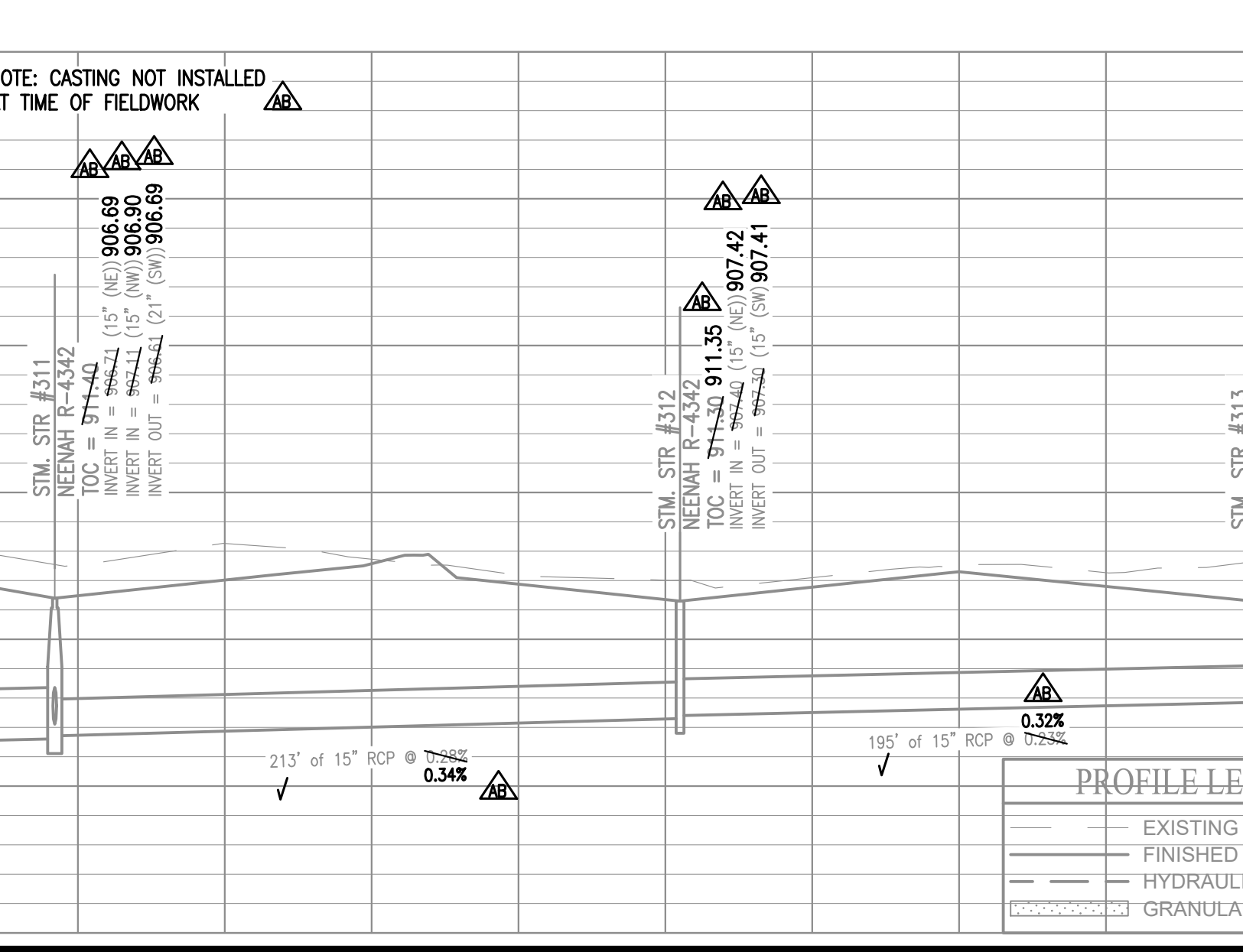
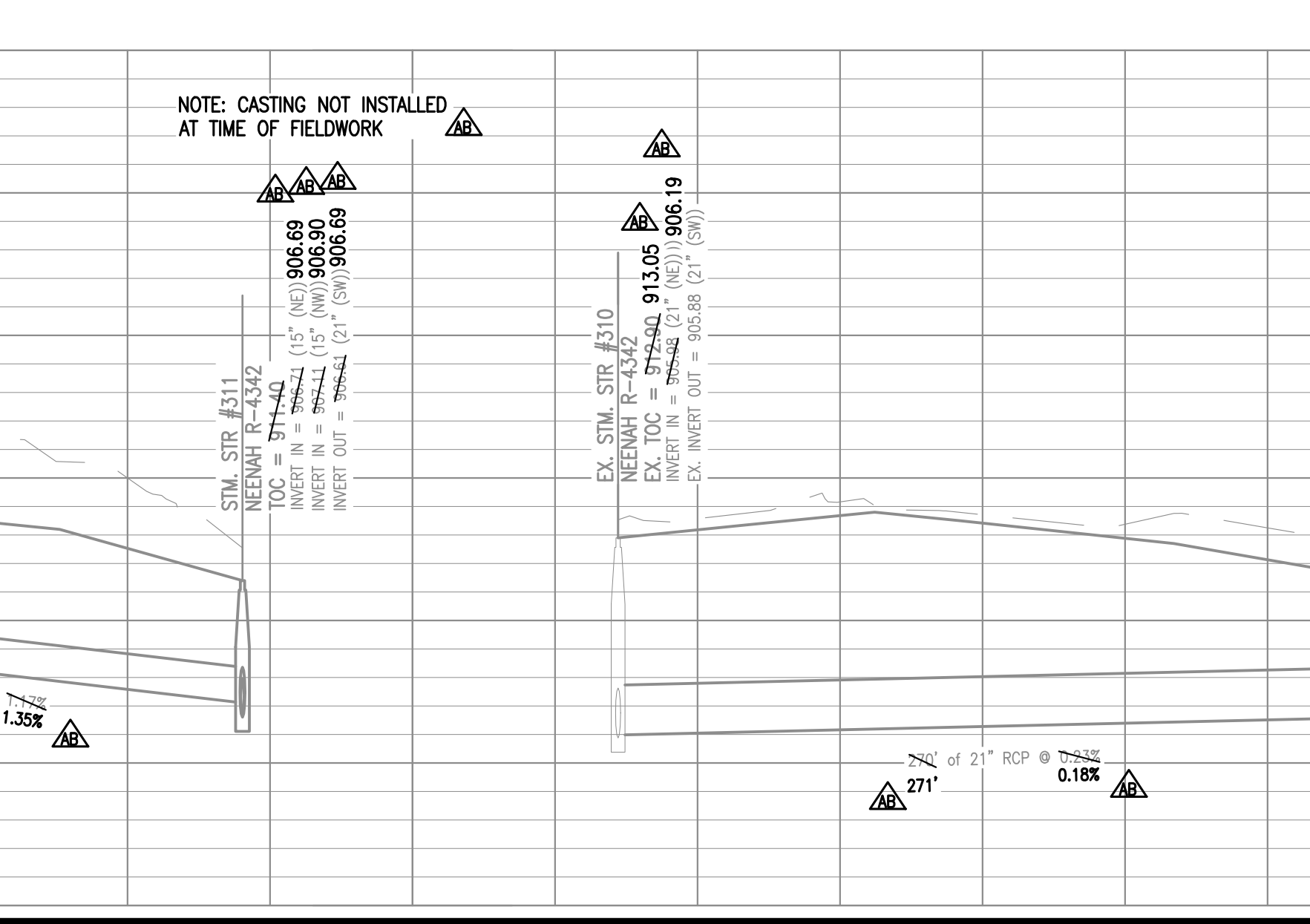
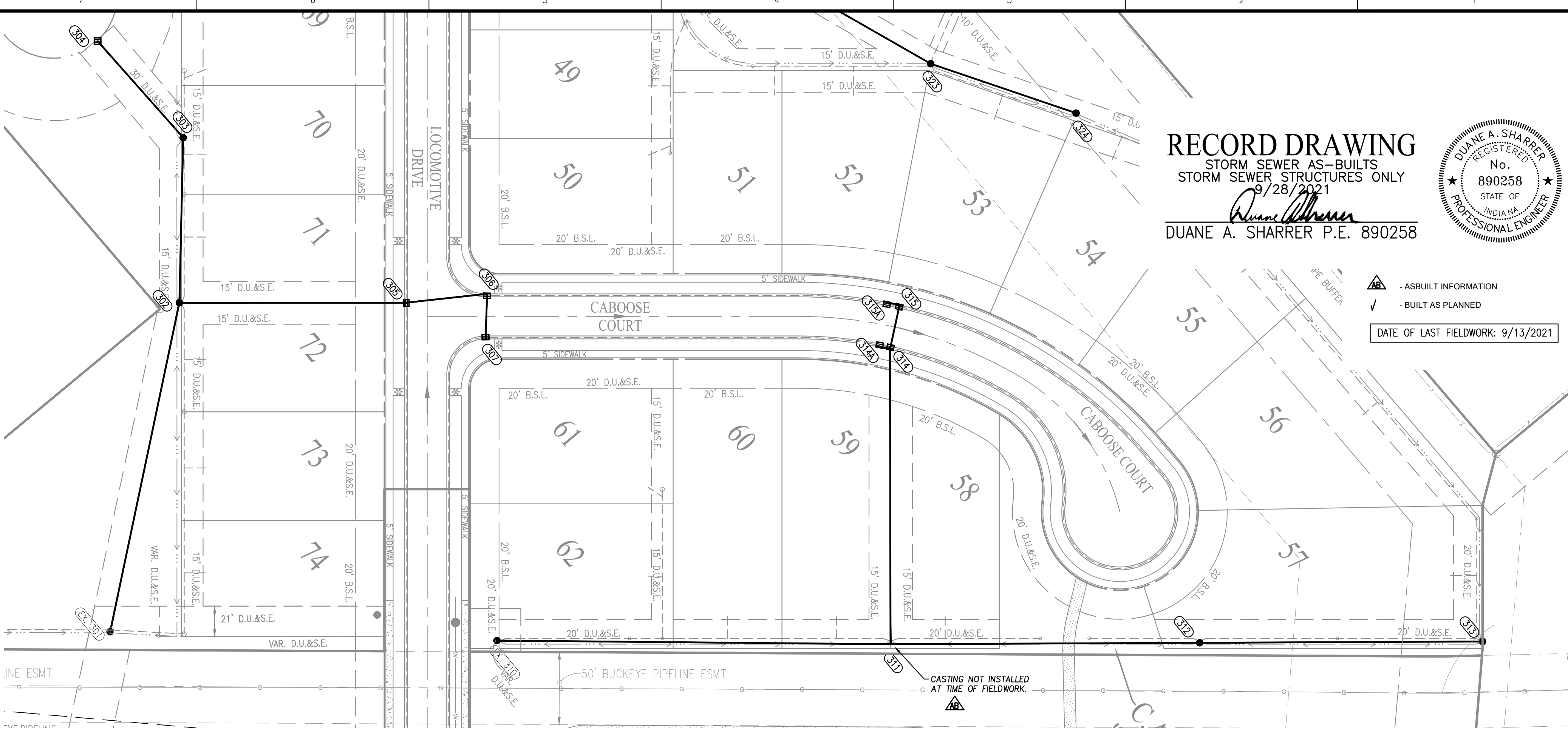
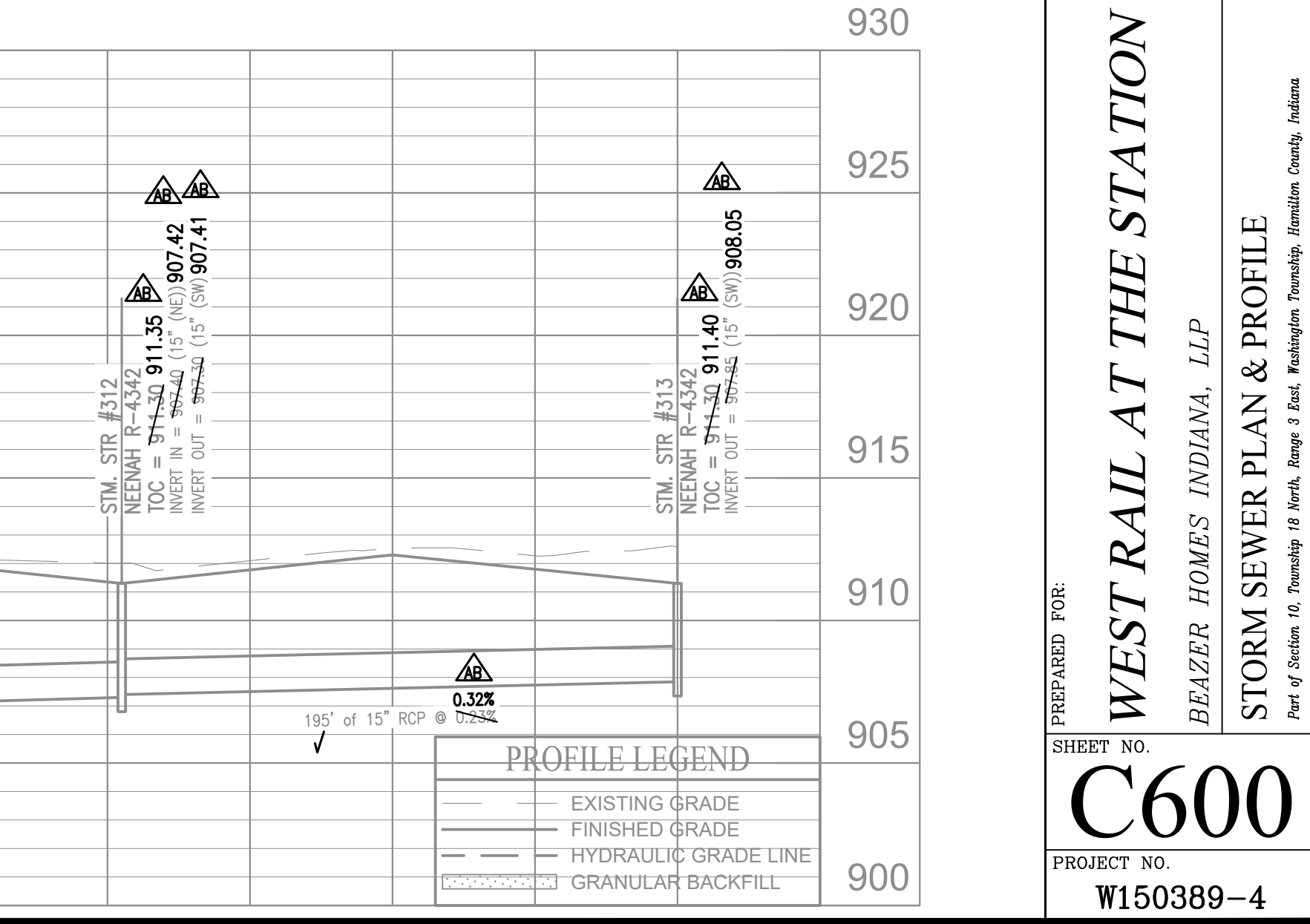
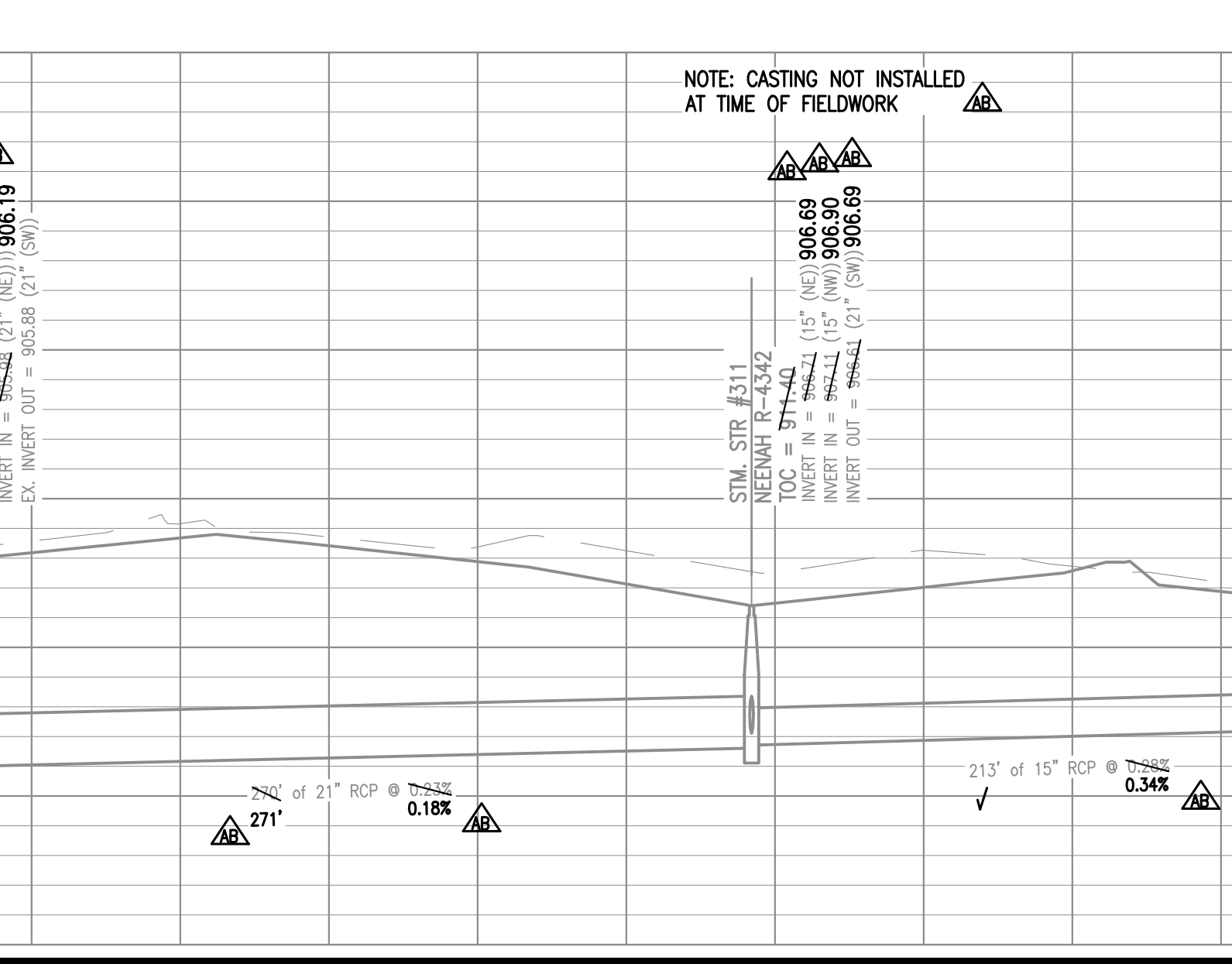
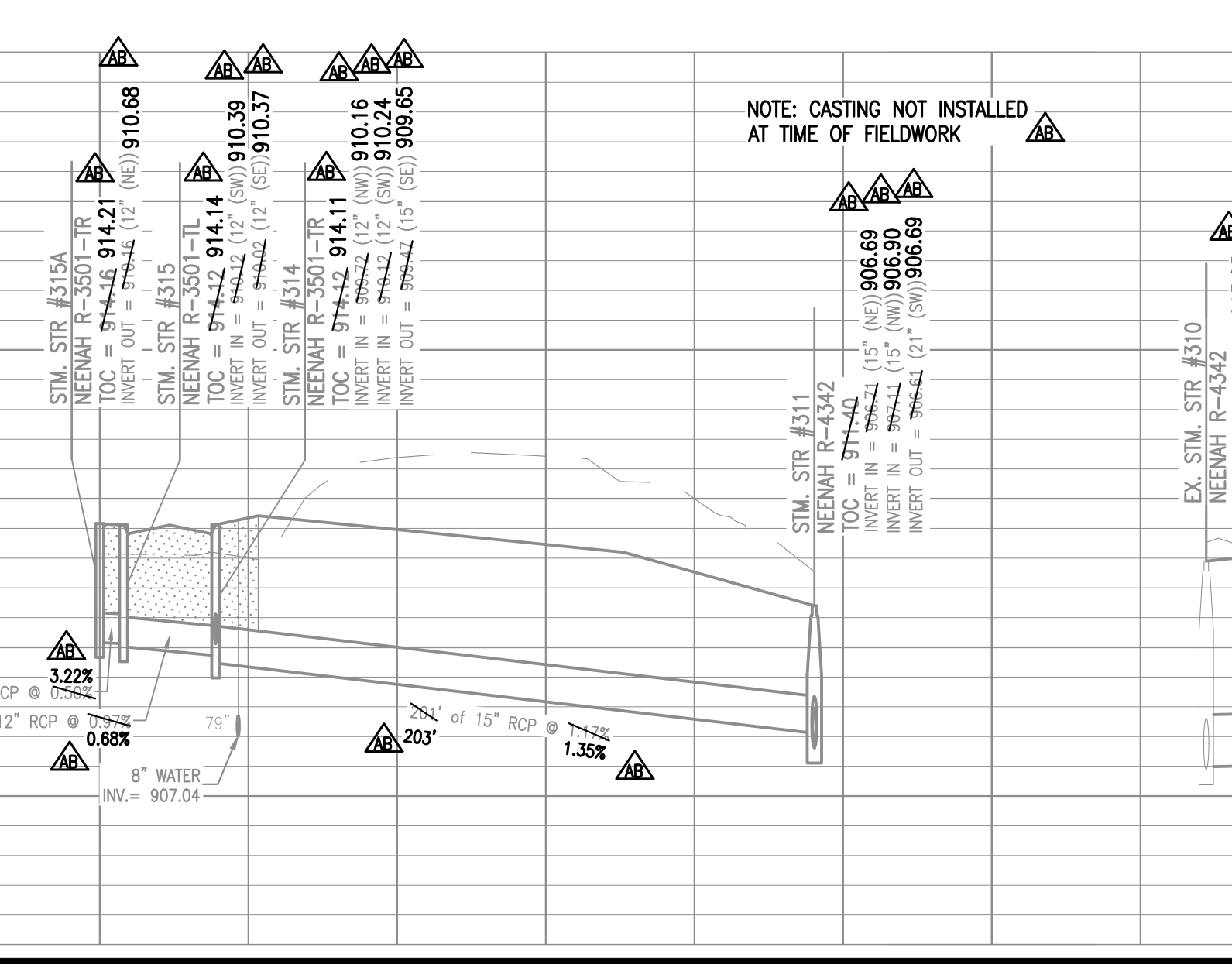
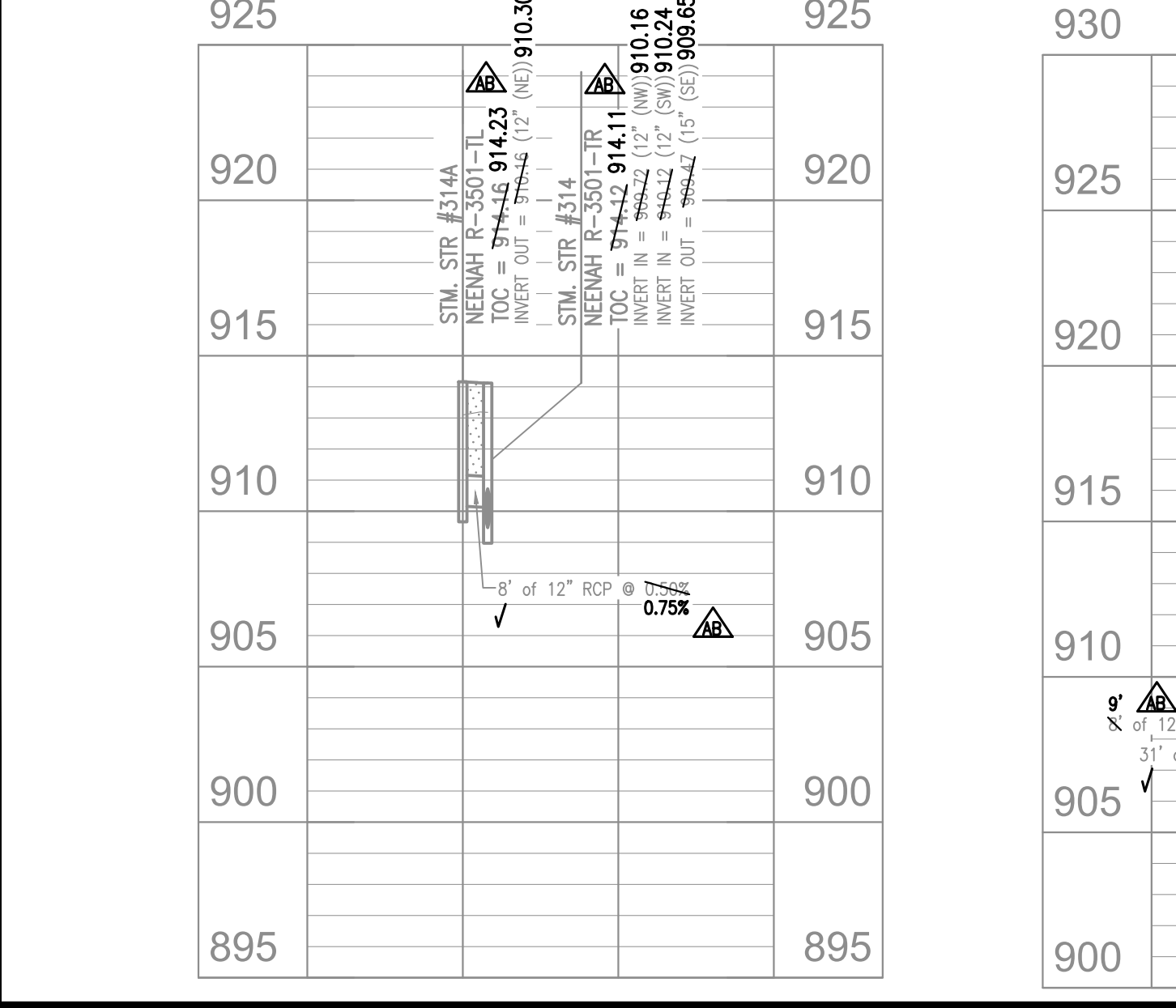
NOTE:
 CONTRACTOR TO CONTACT BUCKEYE PIPELINE COMPANY AND/OR MARATHON PIPELINE COMPANY PRIOR TO ANY WORK WITHIN THE VICINITY OF THEIR PIPELINES AND EASEMENTS DENOTED ON THE PLANS.

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

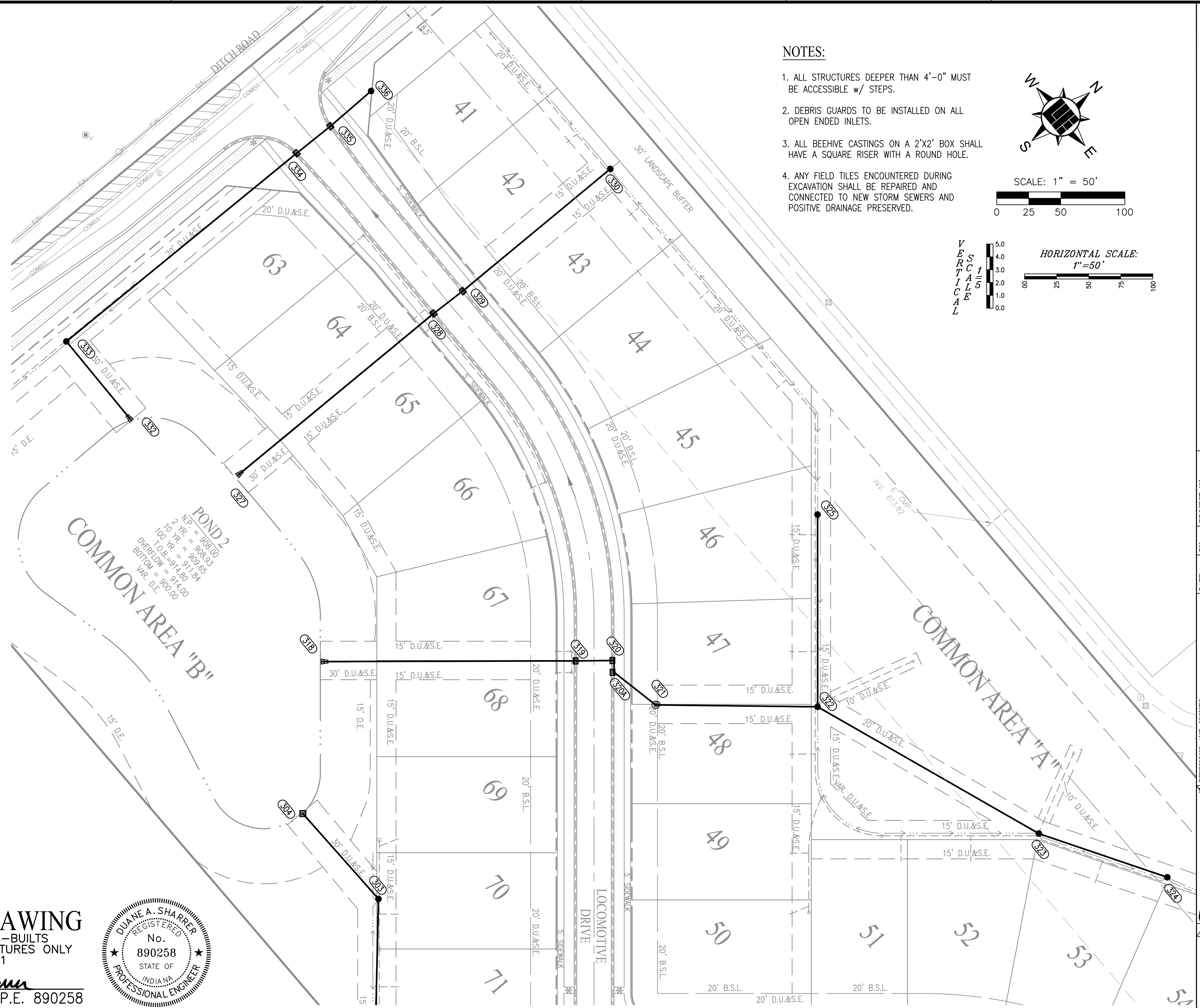
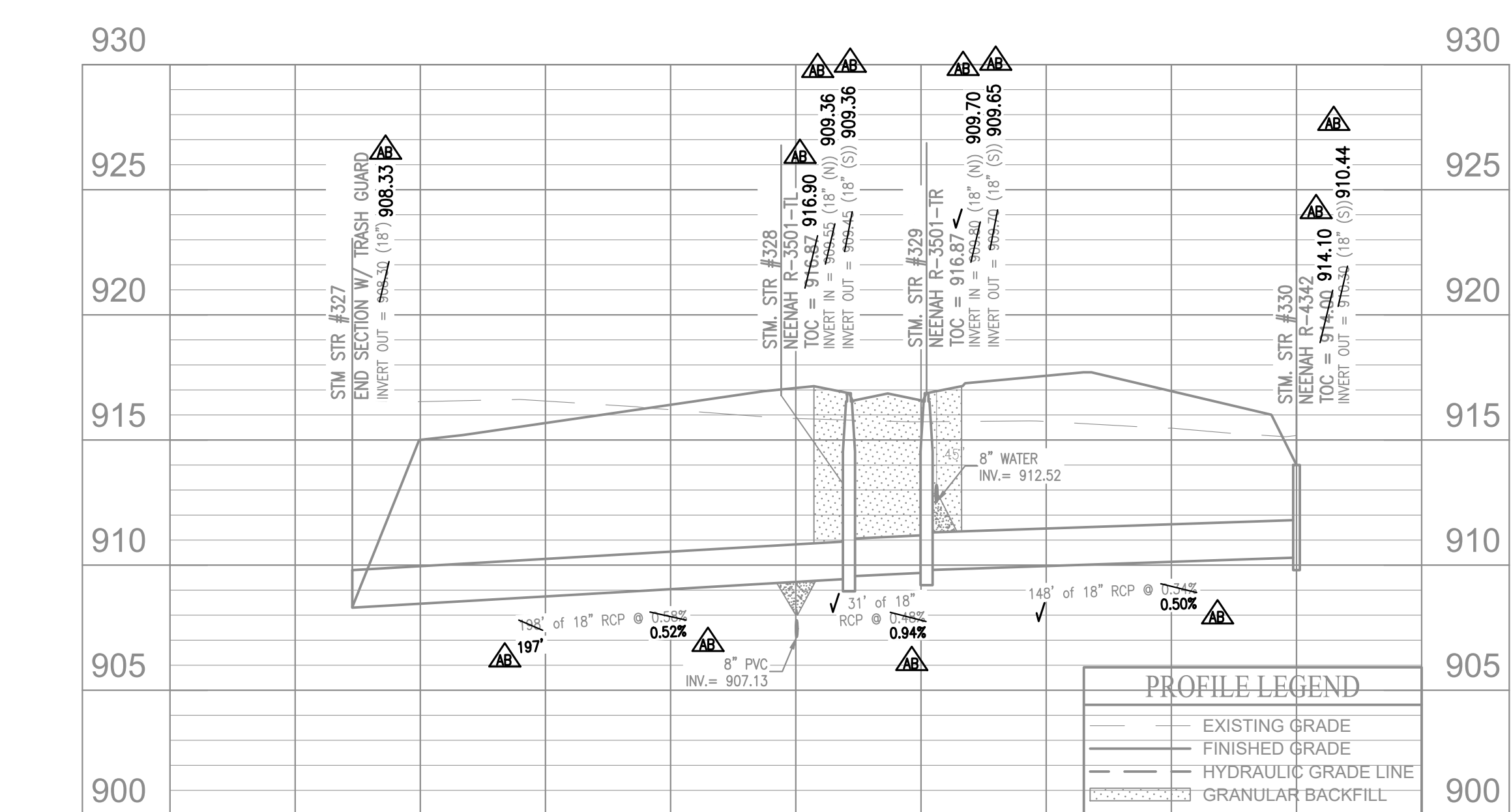
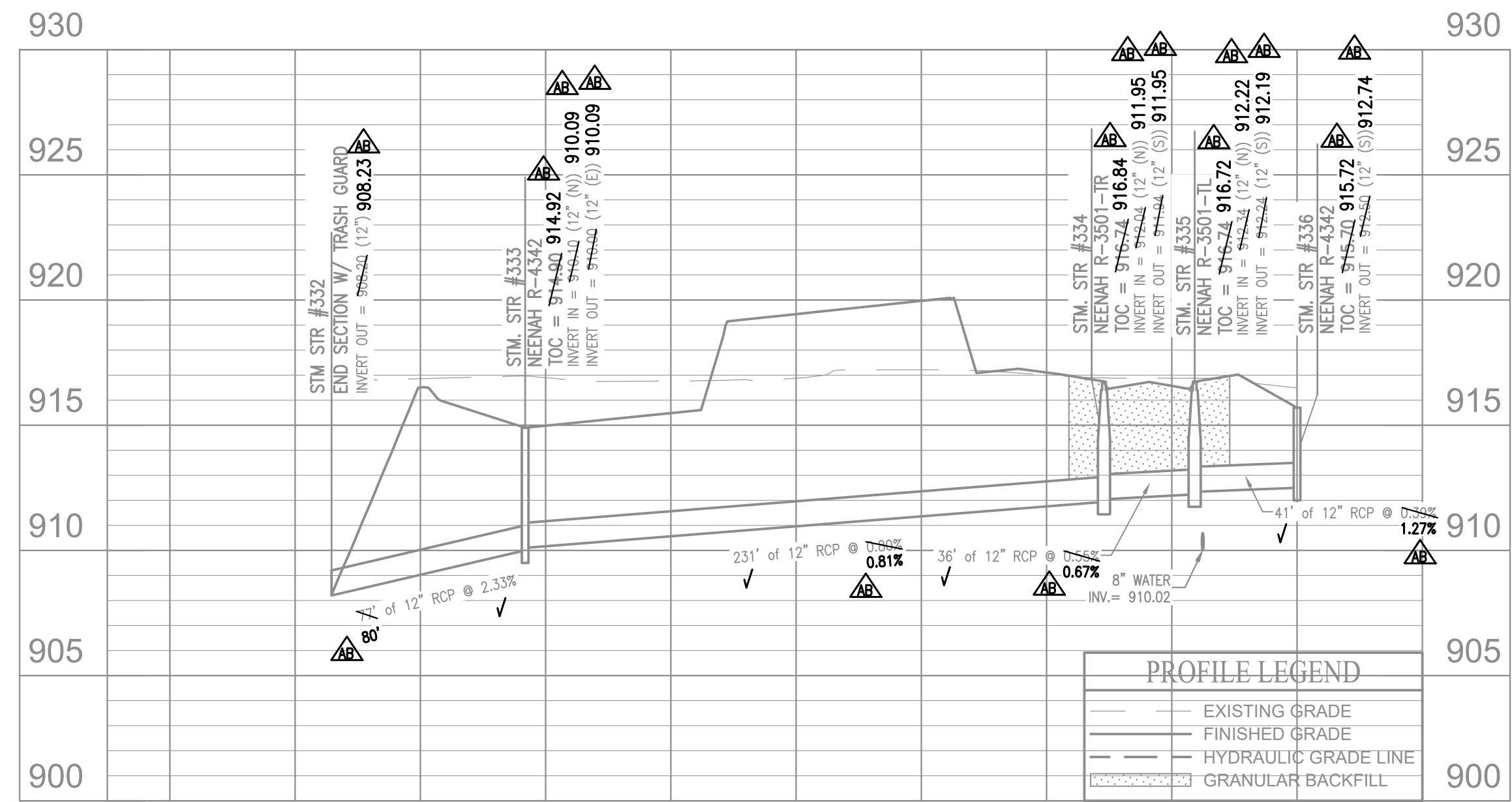
MARATHON PIPELINE COMPANY, LLC
 10722 EAST COMPANY ROAD 300 NORTH
 INDIANAPOLIS, IN 46234
 ATTN: AUSTIN GUYER
 317-291-9460



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.
 4. ANY FIELD TILES ENCOUNTERED DURING EXCAVATION SHALL BE REPAIRED AND CONNECTED TO NEW STORM SEWERS AND POSITIVE DRAINAGE PRESERVED.



LOCATION: H:\2018\W150389\Section 4\Engineering\submittals\0500 Storm Plan.dwg
 DATE/TIME: September 14, 2022 @ 8:44am
 PLOTTED BY: [Name]



NOTES:

- ALL STRUCTURES DEEPER THAN 4'-0" MUST BE ACCESSIBLE W/ STEPS.
- DEBRIS GUARDS TO BE INSTALLED ON ALL OPEN ENDED INLETS.
- ALL BEEHIVE CASTINGS ON A 2'X2' BOX SHALL HAVE A SQUARE RISER WITH A ROUND HOLE.
- ANY FIELD TILES ENCOUNTERED DURING EXCAVATION SHALL BE REPAIRED AND CONNECTED TO NEW STORM SEWERS AND POSITIVE DRAINAGE PRESERVED.

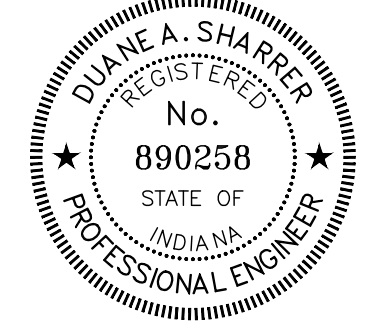
SCALE: 1" = 50'

HORIZONTAL SCALE: 1" = 50'

VERTICAL SCALE: 1" = 5'

AS-BUILT INFORMATION
 BUILT AS PLANNED
 DATE OF LAST FIELDWORK: 9/13/2021

RECORD DRAWING
 STORM SEWER AS-BUILTS
 STORM SEWER STRUCTURES ONLY
 9/28/2021
 DUANE A. SHARRER P.E. 890258



- LEGEND**
- RIGHT-OF-WAY LINE
 - STORM SEWER LINE
 - SMALL
 - SSD
 - SANITARY SEWER LINE
 - SANITARY SEWER MANHOLE
 - SANITARY SEWER LATERAL
 - PROPOSED WATER LINE
 - FLOW DIRECTION
 - EXISTING CONTOURS
 - PROPOSED ELEVATION
 - STORM INLET
 - TOP OF CASTING
 - INVERT
 - REINFORCED CONCRETE PIPE
 - MANHOLE
 - STRUCTURE
 - DRAINAGE EASEMENT
 - DRAINAGE, UTILITY AND SEWER EASEMENT
 - LANDSCAPING EASEMENT
 - CONCRETE END SECTION
 - MATCH EXISTING
 - HIGH PRESSURE PETROLEUM PRODUCTS PIPELINE
- TYP. PROP.**
- EX. = EXISTING
 - R. = RADIUS
 - VAR. = VARIABLE WIDTH
 - MLAG = MINIMUM LOWEST ADJACENT GRADE
 - ROW = RIGHT-OF-WAY
 - B-B = BACK OF CURB
 - HP = HIGH POINT
 - HP = ADA RAMP
 - HP = FIRE HYDRANT
 - HP = PROPOSED 8" ASPHALT PATH
 - HP = STREET LIGHT

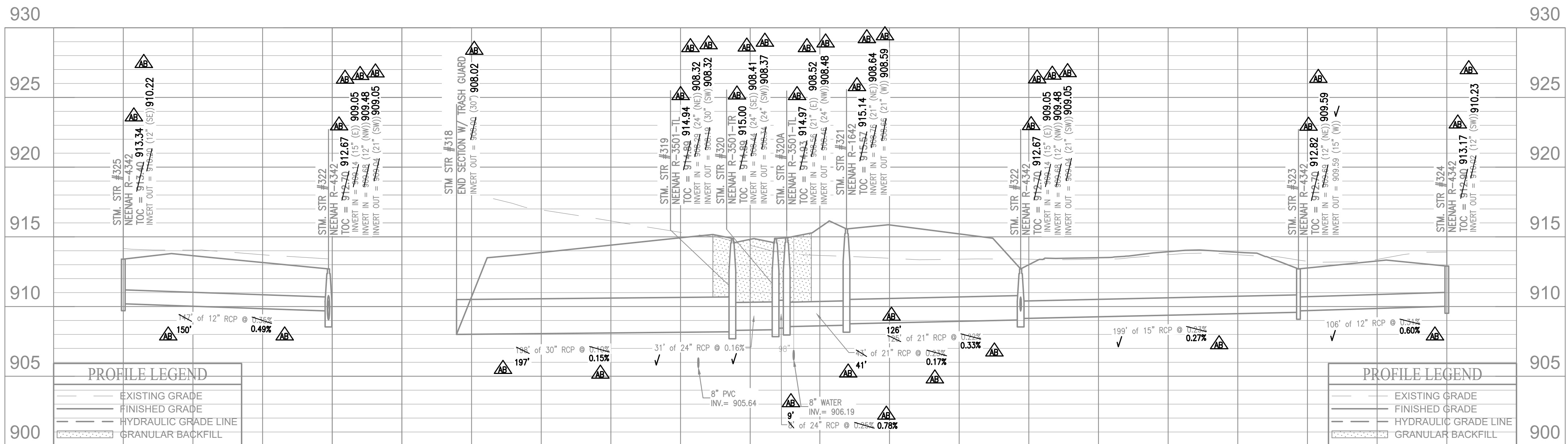
NOTE:

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:

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 ATTN: KYLE SMITH
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 10722 EAST COMPANY ROAD 300 NORTH
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 ATTN: AUSTIN CUTYER
 317-291-9460



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

WEIHE ENGINEERS
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PROJECT NO.: W150389-4
 DATE: 10/01/2020
 BY: SCS
 DATE: 10/23/2020
 DATE: 02/07/2021
 DATE: 02/08/2021
 DATE: 02/08/2021
 DATE: 02/09/2021
 DATE: 02/19/2021

DUANE A. SHARRER
 REGISTERED PROFESSIONAL ENGINEER
 No. 890258
 STATE OF INDIANA

PREPARED FOR:
WEST RAIL AT THE STATION SECTION 4
 BEAZER HOMES INDIANA, LLP
 STORM SEWER PLAN & PROFILE

SHEET NO. **C601**
 PROJECT NO. W150389-4

LOCATION: H:\2019\W150389-4\Engineering\Submittals\AS-Built\Storm Plan.dwg
 DATE/TIME: September 14, 2022 - 8:45am
 PLOTTED BY: Irmengard

LEGEND

- EXISTING WATER MAIN
- PROPOSED WATER MAIN
- TELEPHONE POLE
- GAS POLE
- INLET
- TREE
- GAS VALVE
- PARCEL ID
- ADAPTER
- BEND
- KICKER BLOCK
- EXISTING HYDRANT WITH HYDRANT VALVE
- PROPOSED HYDRANT WITH BUTTERFLY VALVE
- VALVE
- BLOWOFF ASSEMBLY
- AIR RELIEF VALVE
- PLUG
- REDUCER
- T.J. TEE
- M.J. SLEEVE
- CROSS
- CASING PIPES
- GAS LINES
- TELEPHONE LINES
- ELECTRICAL LINES
- FUTURE DRIVEWAYS (BY OTHERS)
- SINGLE WATER LATERAL

WATER MAIN NOTES:

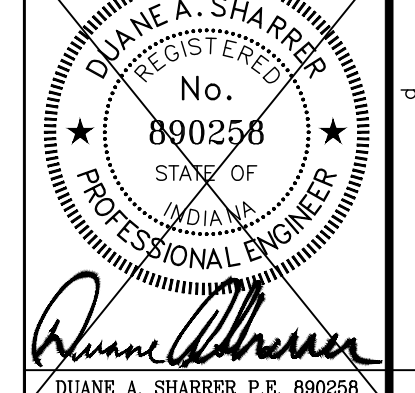
1. ALL SERVICE LINES TO BE STUBBED A MINIMUM OF 2 FEET BEHIND SIDEWALK.
2. MAIN SHALL BE SADDLE TAPPED AND BEDDED WITH SAND 6 INCHES UNDER AND 12 INCHES OVER THE PIPE WITH MARKING TAPE INSTALLED 2 FEET ABOVE THE WATER MAIN.
3. #10 TRACER WIRE SHALL BE INSTALLED ON TOP OF ALL MAINS AND PULLED THROUGH VALVE BOXES.
4. CONTRACTOR MUST PROVIDE REDLINE "AS-BUILT" MARK-UPS TO ENGINEER OR ALL BENDS AND TEES MUST BE LOCATED WITH 2X4 BOARD PAINTED BLUE.
5. ALL PROPOSED ROAD CROSSINGS MUST BE FULLY BACKFILLED WITH A GRANULAR BACKFILL MATERIAL.
6. ALL TEMPORARY FIRE HYDRANTS TO BE INSTALLED WITH VALVES.
7. ALL VALVES MUST HAVE POSI-CAP INSTALLED.
8. ALL WATER MAINS TO BE INSTALLED ACCORDING TO CITIZENS' STANDARD PRACTICE AND ENGINEERING REQUIREMENTS DATED JANUARY 2021.
9. FIRE HYDRANTS ARE DIAGRAMMATIC AS TO LOCATION RELATIVE TO WALK AND PROPERTY LINES. FIRE HYDRANTS SHALL BE INSTALLED BETWEEN SIDEWALK AND CURB SO AS TO NOT INTERFERE WITH WALK AND TO PROVIDE A MINIMUM OF 18" CLEARANCE FROM BACK OF CURB.
10. METER PIT PARTS TO BE DISCUSSED AT PRE CONSTRUCTION MEETING.
11. FOR SANITARY SEWER AND WATER SPECIFICATIONS SEE CITIZENS WATER AND WASTEWATER SPECIFICATIONS AND STANDARDS FOR THE WESTFIELD SERVICE TERRITORY EFFECTIVE JANUARY 2021.
12. MINIMUM COVER OVER TOP OF ALL WATER MAINS TO BE 54" FROM FINISH GRADE.
13. VALVES ARE TO BE PLACED IN GRASS.
14. STANDARD PRACTICE OF INSTALLATION OF RESTRAINTS MUST BE FOLLOWED DURING CONSTRUCTION OF WATER MAIN. ANY QUESTIONS, ASK CEG INSPECTOR.
15. ALL WATER MAINS MUST MAINTAIN A MINIMUM OF 10" HORIZONTAL SEPARATION AND A MINIMUM OF 18" VERTICAL SEPARATION FROM ALL SANITARY AND STORM SEWERS.
16. FIRE HYDRANTS TO HAVE 5-INCH STORZ CONNECTION.

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

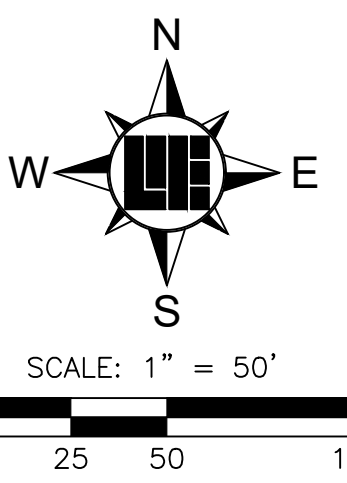
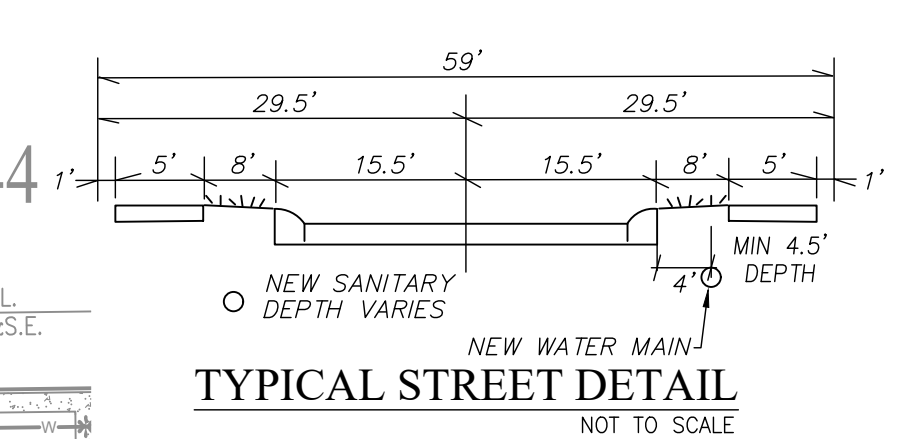
WEIHE ENGINEERS
Land Surveying / Civil Engineering
Landscape Architecture

PROJECT NO.	W150389-4
DWG. NAME	AS-BUILT WATER MAIN
DESIGNED BY	DUANE A. SHARRER
DRAWN BY	DUANE A. SHARRER
CHECKED BY	DUANE A. SHARRER
DATE	02/01/2020

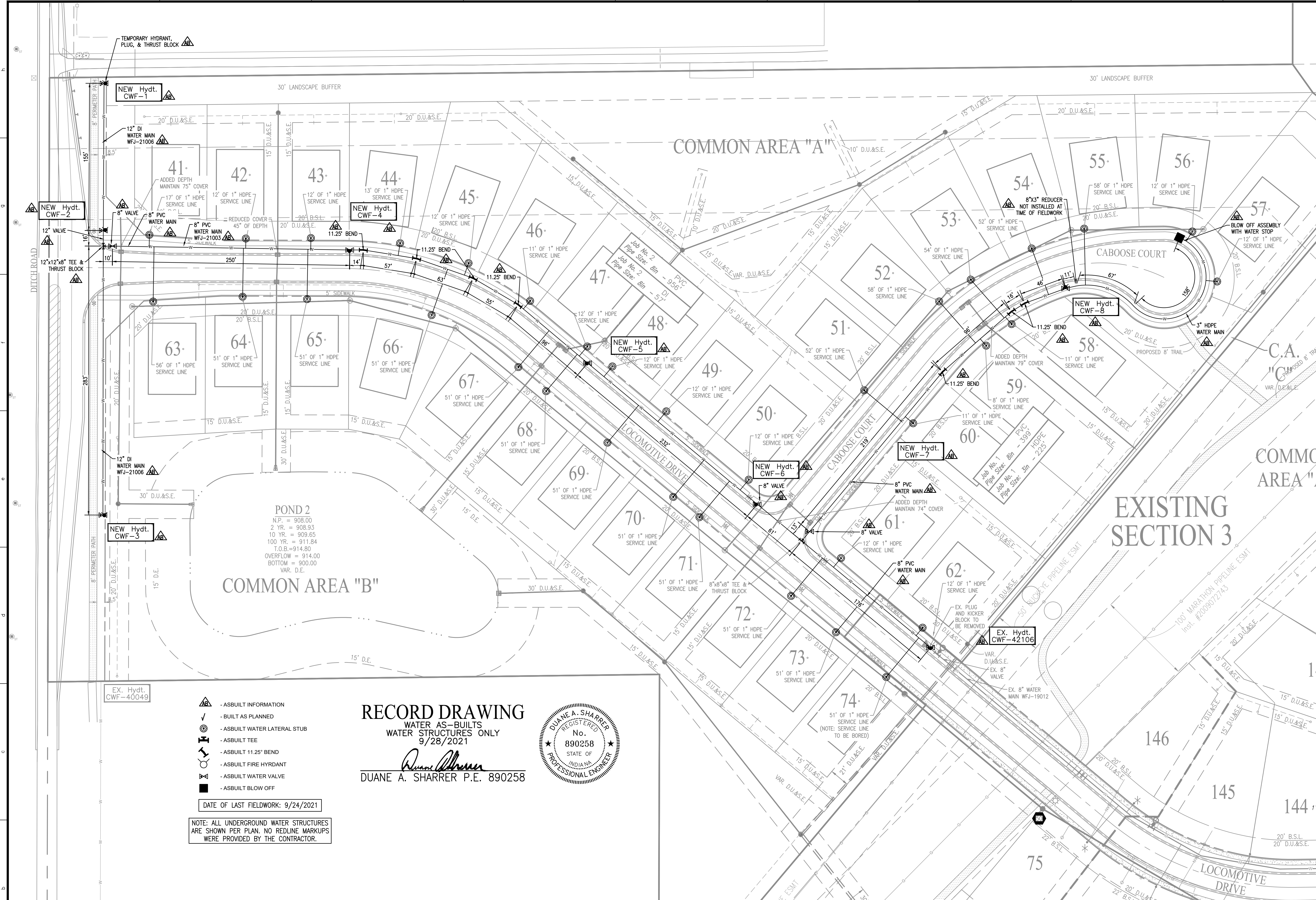
DATE	10/23/2020	REVISIONS AND ISSUES
BY	SS	REVISED PER AGENCY COMMENTS
DATE	01/23/2021	REVISED PER CITY OF WESTFIELD COMMENTS
BY	SS	REVISED PER CITY OF WESTFIELD COMMENTS
DATE	02/08/2021	REVISED PER CITY OF WESTFIELD COMMENTS
BY	SS	REVISED PER CITY OF WESTFIELD COMMENTS
DATE	02/19/2021	REVISED PER CITY OF WESTFIELD COMMENTS
BY	SS	REVISED PER CITY OF WESTFIELD COMMENTS
DATE	03/19/2021	REVISED PER CITY OF WESTFIELD COMMENTS
BY	SS	REVISED PER CITY OF WESTFIELD COMMENTS



WEST RAIL AT THE STATION SECTION 4
BEAZER HOMES INDIANA, LLP
WATER PLAN
SHEET NO. **C700**
PROJECT NO. **W150389-4**

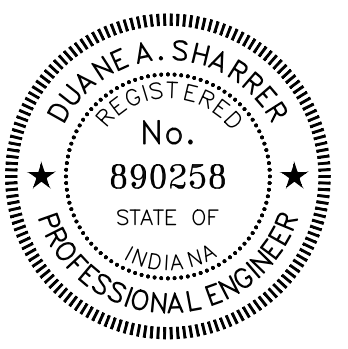


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WITHOUT NOTIFYING THE UNDERGROUND
LOCATION SERVICE TWO (2) WORKING
DAYS BEFORE COMMENCING WORK.



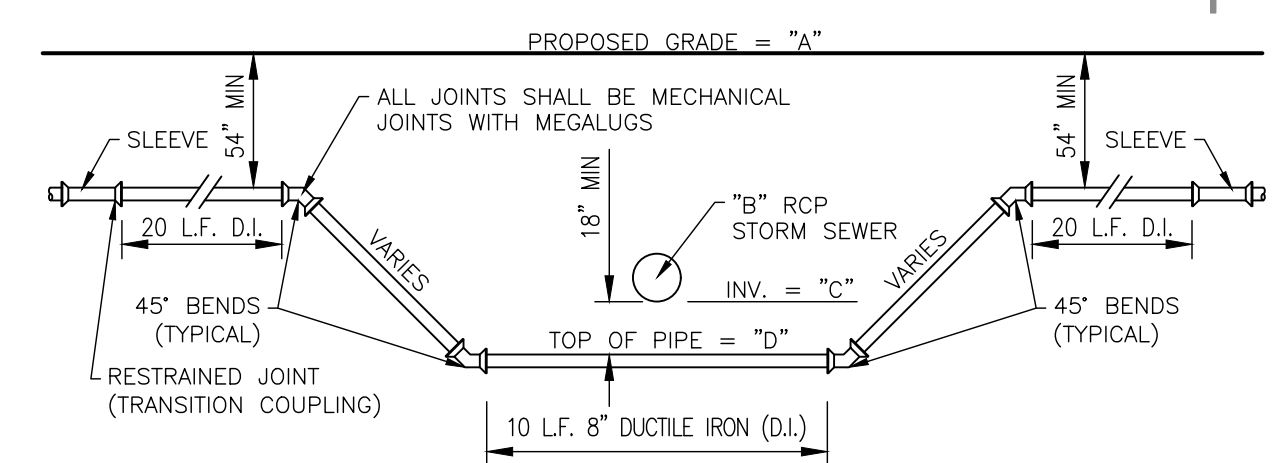
RECORD DRAWING
WATER AS-BUILTS
WATER STRUCTURES ONLY
9/28/2021

Duane A. Sharrer
DUANE A. SHARRER P.E. 890258



- AS-BUILT INFORMATION
 - BUILT AS PLANNED
 - AS-BUILT WATER LATERAL STUB
 - AS-BUILT TEE
 - AS-BUILT 11.25° BEND
 - AS-BUILT FIRE HYDRANT
 - AS-BUILT WATER VALVE
 - AS-BUILT BLOW OFF
- DATE OF LAST FIELDWORK: 9/24/2021
- NOTE: ALL UNDERGROUND WATER STRUCTURES ARE SHOWN PER PLAN. NO REDLINE MARKUPS WERE PROVIDED BY THE CONTRACTOR.

CONTACT PERSON FOR WATER DETAILS AND PRACTICES
CITIZENS WESTFIELD
(WATER & SANITARY SEWER)
2150 DR. MARTIN LUTHER KING DRIVE
INDIANAPOLIS, IN 46202
CONTACT PERSON: BRAD HOSTETLER
TELEPHONE: (317) 927-4351



CROSSING SUMMARY TABLE

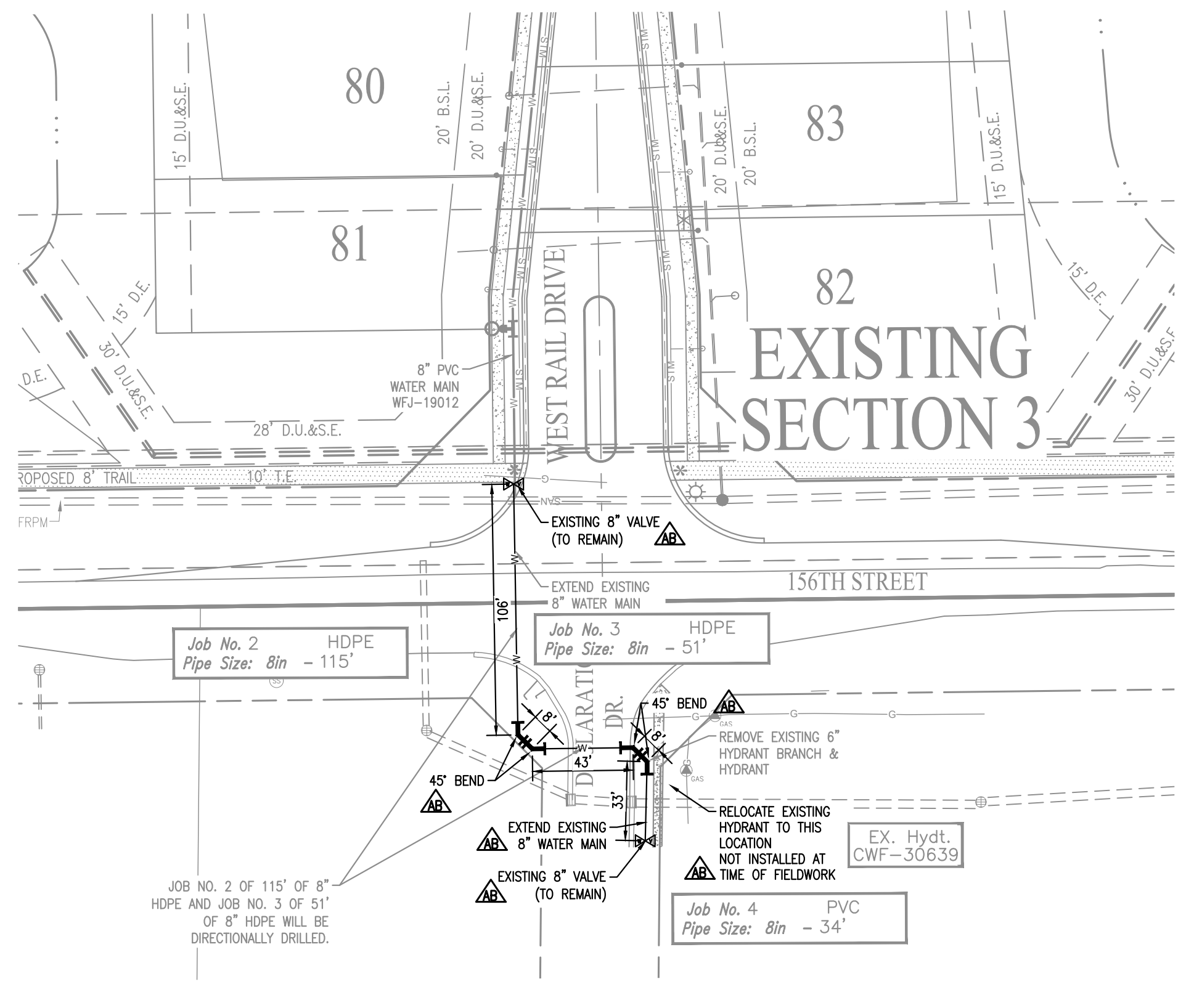
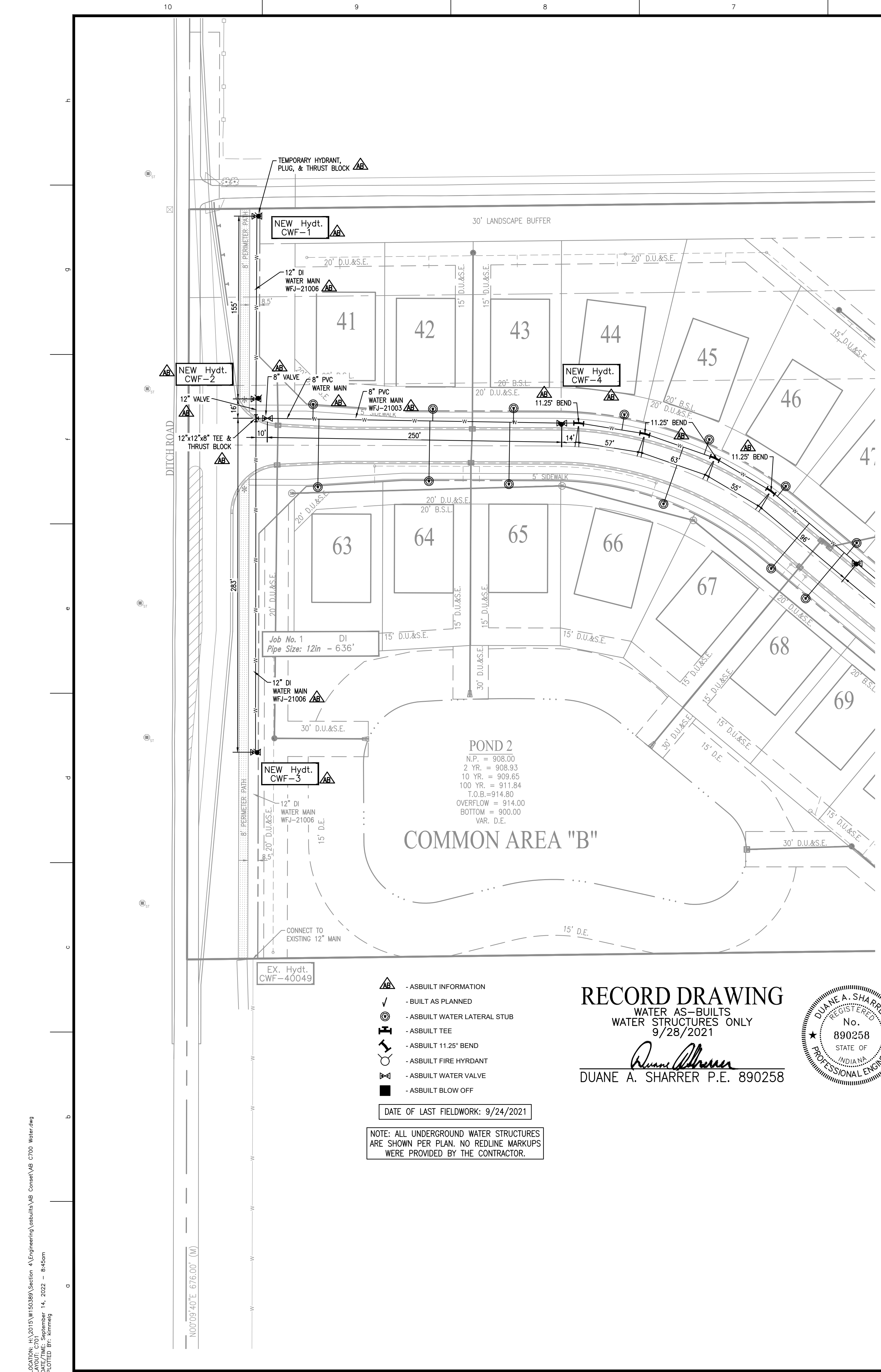
CROSSING	A	B	C	D
#1	915.0±	21'	908.6±	906.9±

CITIZENS WESTFIELD PROJECT LEGEND

Project Name	WEST RAIL AT THE STATION SECTION 4				
Project Number	WFJ-21003				
Job #	Street Name	Pipe Size	Pipe Type	Total Pipe	
1	CABOOSE COURT	8"	PVC	399'	
1	CABOOSE COURT	3"	HDPE	225'	
2	LOCOMOTIVE DRIVE	8"	PVC	956'	
2	LOCOMOTIVE DRIVE	8"	DI	57'	
				TOTAL	1637'
# OF SERVICE LINES					
34	SINGLE SERVICE LINE	1"	HDPE	1114'	
				TOTAL	1114'

Project Name **WEST RAIL AT THE STATION SECTION 4**
Project Number **WFJ-21003**
Dist. Map No. **2245**
Meter Map No. **IN29_1404**
Lots **34**
Tax Code **29014**
Pressure Dist **WESTFIELD**
Drafter **Weihe / MEN**
Date **02/02/2021**
County **HAMILTON**
Township **WASHINGTON**

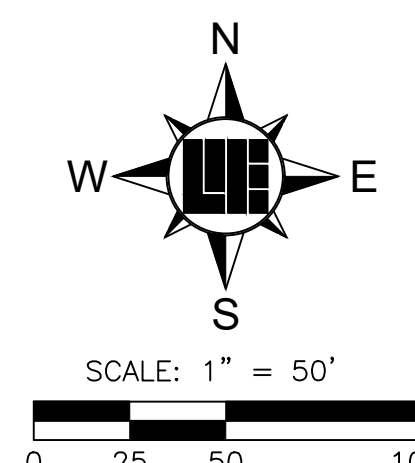
LOCATION: H:\2019\W150389\Section 4\Engineering\submittals\AS-Built\W150389-4.dwg
DATE/TIME: September 14, 2022 - 8:45am
PLOTTED BY: kmmg



CITIZENS WESTFIELD PROJECT LEGEND				
Project Name WEST RAIL AT THE STATION OFFSITE				
Project Number WFJ-21006				
Job #	Street Name	Pipe Size	Pipe Type	Total Pipe
1	DITCH ROAD	12"	DI	636'
2	WEST RAIL DRIVE	8"	PVC	199'
			TOTAL	835'

LEGEND

— W —	EXISTING WATER MAIN
— P —	PROPOSED WATER MAIN
⊙	PROPOSED HYDRANT WITH HYDRANT VALVE
⊙	EXISTING HYDRANT WITH HYDRANT VALVE BUTTERFLY VALVE
⊙	VALVE
⊙	BLOWOFF ASSEMBLY
⊙	AIR RELIEF VALVE
⊙	PLUG
⊙	REDUCER
⊙	T.J. TEE
⊙	M.J. SLEEVE
⊙	CROSS
—	CASING PIPES
—	GAS LINES
—	TELEPHONE LINES
—	ELECTRICAL LINES
—	FUTURE DRIVEWAYS (BY OTHERS)
—	SINGLE WATER LATERAL

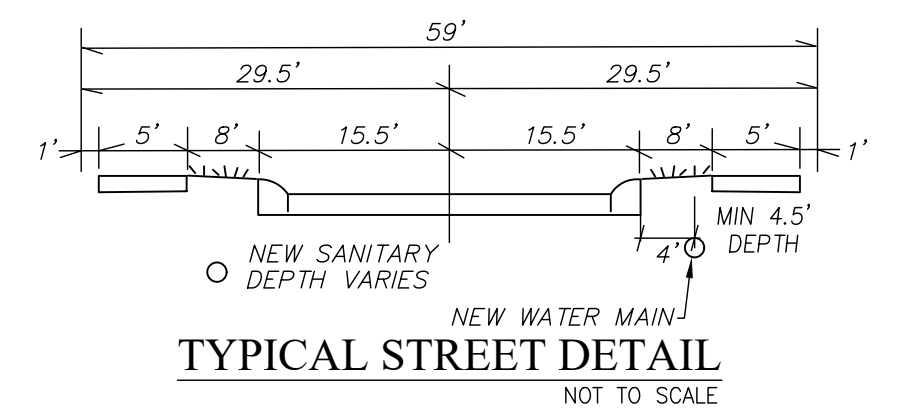


WATER MAIN NOTES:

1. ALL SERVICE LINES TO BE STUBBED A MINIMUM OF 2 FEET BEHIND SIDEWALK.
2. MAIN SHALL BE SADDLE TAPPED AND BEDDED WITH SAND 6 INCHES UNDER AND 12 INCHES OVER THE PIPE WITH MARKING TAPE INSTALLED 2 FEET ABOVE THE WATER MAIN.
3. #10 TRACER WIRE SHALL BE INSTALLED ON TOP OF ALL MAINS AND PULLED THROUGH VALVE BOXES.
4. CONTRACTOR MUST PROVIDE REDLINE "AS-BUILT" MARK-UPS TO ENGINEER OR ALL BENDS AND TEES MUST BE LOCATED WITH 2X4 BOARD PAINTED BLUE.
5. ALL PROPOSED ROAD CROSSINGS MUST BE FULLY BACKFILLED WITH A GRANULAR BACKFILL MATERIAL.
6. ALL TEMPORARY FIRE HYDRANTS TO BE INSTALLED WITH VALVES.
7. ALL VALVES MUST HAVE POSI-CAP INSTALLED.
8. ALL WATER MAINS TO BE INSTALLED ACCORDING TO CITIZENS' STANDARD PRACTICE AND ENGINEERING REQUIREMENTS DATED JANUARY 2021.
9. FIRE HYDRANTS ARE DIAGRAMMATIC AS TO LOCATION RELATIVE TO WALK AND PROPERTY LINES. FIRE HYDRANTS SHALL BE INSTALLED BETWEEN SIDEWALK AND CURB SO AS TO NOT INTERFERE WITH WALK AND TO PROVIDE A MINIMUM OF 18" CLEARANCE FROM BACK OF CURB.
10. METER PIT PARTS TO BE DISCUSSED AT PRE CONSTRUCTION MEETING.
11. FOR SANITARY SEWER AND WATER SPECIFICATIONS SEE CITIZENS WATER AND WASTEWATER SPECIFICATIONS AND STANDARDS FOR THE WESTFIELD SERVICE TERRITORY EFFECTIVE JANUARY 2021.
12. MINIMUM COVER OVER TOP OF ALL WATER MAINS TO BE 54" FROM FINISH GRADE.
13. VALVES ARE TO BE PLACED IN GRASS.
14. STANDARD PRACTICE OF INSTALLATION OF RESTRAINTS MUST BE FOLLOWED DURING CONSTRUCTION OF WATER MAIN. ANY QUESTIONS, ASK CEG INSPECTOR.
15. ALL WATER MAINS MUST MAINTAIN A MINIMUM OF 10' HORIZONTAL SEPARATION AND A MINIMUM OF 18" VERTICAL SEPARATION FROM ALL SANITARY AND STORM SEWERS.
16. FIRE HYDRANTS TO HAVE 5-INCH STORZ CONNECTION.

Project Name **WEST RAIL AT THE STATION OFFSITE**
 Project Number **WFJ-21006**
 Dist. Map No. **2245**
 Meter Map No. **IN29_1404**
 Lots **0**
 Tax Code **29014**
 Pressure Dist **WESTFIELD**
 Drafter **Weihe / KMH**
 Date **02/02/2021**
 County **HAMILTON**
 Township **WASHINGTON**

CONTACT PERSON FOR WATER DETAILS AND PRACTICES
 CITIZENS WESTFIELD
 (WATER & SANITARY SEWER)
 2150 DR. MARTIN LUTHER KING DRIVE
 INDIANAPOLIS, IN 46202
 CONTACT PERSON: BRAD HOSTETTLER
 TELEPHONE: (317) 927-4351



RECORD DRAWING
 WATER AS-BUILTS
 WATER STRUCTURES ONLY
 9/28/2021

DUANE A. SHARRER P.E. 890258

- ⚠ - AS-BUILT INFORMATION
 - ✓ - BUILT AS PLANNED
 - ⊙ - AS-BUILT WATER LATERAL STUB
 - ⊙ - AS-BUILT TEE
 - ⊙ - AS-BUILT 11.25° BEND
 - ⊙ - AS-BUILT FIRE HYDRANT
 - ⊙ - AS-BUILT WATER VALVE
 - - AS-BUILT BLOW OFF
- DATE OF LAST FIELDWORK: 9/24/2021
- NOTE: ALL UNDERGROUND WATER STRUCTURES ARE SHOWN PER PLAN. NO REDLINE MARKUPS WERE PROVIDED BY THE CONTRACTOR.

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

WEIHE ENGINEERS
 Land Surveying | Civil Engineering
 Landscape Architecture

PROJECT NO.	W150389-4
DATE	10/23/2020
DATE	02/02/2021
DATE	02/08/2021
DATE	02/08/2021
DATE	02/09/2021
DATE	02/19/2021

REVISIONS AND ISSUES

NO.	DATE	DESCRIPTION
1	10/23/2020	REVISED PER AGENCY COMMENTS
2	02/02/2021	REVISED PER CITY OF WESTFIELD COMMENTS
3	02/08/2021	REVISED PER CITY OF WESTFIELD COMMENTS
4	02/08/2021	REVISED PER CITY OF WESTFIELD COMMENTS
5	02/08/2021	REVISED PER CITY OF WESTFIELD COMMENTS
6	02/09/2021	REVISED PER CITY OF WESTFIELD COMMENTS
7	02/19/2021	REVISED PER CITY OF WESTFIELD COMMENTS

DUANE A. SHARRER
 REGISTERED PROFESSIONAL ENGINEER
 No. 890258
 STATE OF INDIANA
 Duane A. Sharrer P.E. 890258

PREPARED FOR:
WEST RAIL AT THE STATION SECTION 4
 BEAZER HOMES INDIANA, LLP
OFFSITE WATER PLAN

SHEET NO.
C701
 PROJECT NO.
W150389-4

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