

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

August 7, 2017

To: Hamilton County Drainage Board

Re: Williams Creek Drain, Clay Corner Arm

Attached is a petition filed by Clay Corner Developer, L.L.C., along with a non-enforcement request, plans, calculations, quantity summary and assessment roll for Clay Corner Arm, Williams Creek Drain to be located in Clay Township. I have reviewed the submittals and petition and have found each to be in proper form.

I have made a personal inspection of the land described in the petition. Upon doing so, I believe that the drain is practicable, will improve the public health, benefit a public highway, and be of public utility and that the costs, damages and expenses of the proposed drain will probably be less than the benefits accruing to the owners of land likely to be benefited. The drain will consist of the following:

12" RCP	995 ft.	24" RCP	602ft.
15" RCP	729 ft.	30" RCP	387 ft.
18" RCP	251 ft.	6" SSD	11,001 ft.
21" RCP	904 ft.	Open Ditch	555 ft.

The total length of the drain will be 15,424 feet.

The length of open ditch listed above are those straight line distances through Lake #1 from the inlet structures (Str. 500, 514, and 534) and the outlet structure (Str. 548).

The detention basin (Lake # 1) located in Common Area #3 is not to be considered part of the regulated drain. Basin maintenance assumed by the Drainage Board shall only include the inlets and outlet as part of the regulated drain. The maintenance of the detention basin (Lake #1) such as sediment removal and erosion control along the banks, mowing, aquatic vegetation maintenance and control, and anything required per the Storm Water Quality Maintenance and Operations Manual will be the responsibility of the Homeowners Association. The Board will also retain jurisdiction for ensuring the storage volume for which the pond was designed will be retained. Thereby, allowing no fill or easement encroachments.

The subsurface drains (SSD) to be part of the regulated drain are those located under the curbs, those main lines in front/rear yards, and those in common areas. Only the main SSD lines as described below,

which are located within the easement or right of way are to be maintained as regulated drain. Laterals for individual lots will not be considered part of the regulated drain. The portions of the SSD which will be regulated and maintained are as follows:

Curbline SSD in Streets:

Lash Street
Jensen Drive
Corey Avenue
Georgianne Lane
Mairn Avenue

Front/Rear Yard SSDs:

Rear yard alley lots 1 to 7 from Str. 527 west to street SSD
Side yard alley lot 7 from Str. 527 to Str. 530
Rear yard alley lots 8 to 14 from Str. 528 to Str. 546
Rear yard alley lots 34 to 37 from street SSD east to riser
Rear yard alley lots 38 to 42 from Str. 516 north to street SSD
Side yard alley lot 48 from street SSD south to riser
Rear yard alley lots 52 to 55 and side yard alley lot 55 from street SSD running west and then south to street SSD.
Rear yard lot 75 from Str. 508 to Str. 509
Rear yard lots 74 & 75 from Str. 509 to Str. 510
Rear yard lots 72 & 73 from Str. 510 north to riser
Rear yard lots 68 to 70 from Str. 510 to Str. 511
Rear yard lot 71 from Str. 511 north and east to riser
Rear yard lot 56 from Str. 536 to Str. 537
Rear yard lots 56 & 57 from Str. 536 to Str. 535

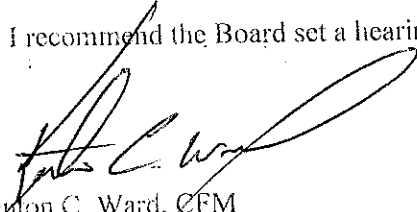
I have reviewed the plans and believe the drain will benefit each lot equally. Therefore, I recommend each lot be assessed equally. I also believe that no damages will result to landowners by the construction of this drain. I recommend a maintenance assessment of \$65.00 per lot, \$10.00 per acre for common areas, with \$65.00 minimum, and \$10.00 per acre for roadways. With this assessment the total annual assessment for this drain will be \$5,504.50.

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 36-9-27-6 / to 69. Therefore, this drain shall be designated as an Urban Drain.

I recommend that upon approval of the above proposed drain that the Board also approve the attached non-enforcement request. The request will be for the reduction of the regulated drain easement to those easement widths as shown on the secondary plat for Clay Corner as recorded in the office of the Hamilton County Recorder.

I recommend the Board set a hearing for this proposed drain for October 23, 2017.



Kenon C. Ward, CFM
Hamilton County Surveyor

KCW:p11

STATE OF INDIANA)
)
COUNTY OF HAMILTON)

FILED

MAY 17 2017

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

OFFICE OF HAMILTON COUNTY SURVEYOR

In the matter of Clay Corner Subdivision, Section
NA 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 Clay Corner, 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

TIMOTHY J. WALTER
Printed Name

5/10/17
Date

Signed

Printed Name

Date

Signed

Printed Name

Date

Signed

Printed Name

Date


FINDINGS AND ORDER

CONCERNING THE MAINTENANCE OF THE
Williams Creek Drain, Clay Corner Arm

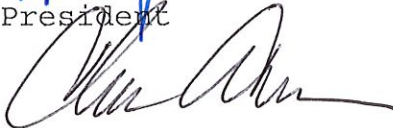
On this 23rd day of October, 2017, the Hamilton County Drainage Board has held a hearing on the Maintenance Report and Schedule of Assessments of the *Williams Creek Drain, Clay Corner Arm*.

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

Clay Corner
Engineers Estimate - Storm Sewers & Monumentation
Prepared on: 6/26/2017

Item	Unit	Unit Cost	Quantities	Cost
Storm Drainage				
12" Pipe	LF	\$ 28.00	1103 \$	30,884
15" Pipe	LF	\$ 32.00	793 \$	25,376
18" Pipe	LF	\$ 38.00	78 \$	2,964
18" End Section	EA	\$ 1,370.00	1 \$	1,370
18" Trash Guard	EA	\$ 550.00	1 \$	550
21" Pipe	LF	\$ 41.00	911 \$	37,351
24" Pipe	LF	\$ 48.00	562 \$	26,976
24" End Section	EA	\$ 1,470.00	2 \$	2,940
24" Trash Guard	EA	\$ 650.00	2 \$	1,300
30" Pipe	LF	\$ 66.00	387 \$	25,542
30" End Section	EA	\$ 1,660.00	1 \$	1,660
30" Trash Guard	EA	\$ 750.00	1 \$	750
Standard Storm Manholes	EA	\$ 2,700.00	19 \$	51,300
Large Storm Manholes & Double Inlets	EA	\$ 5,000.00	3 \$	15,000
Storm inlets	EA	\$ 2,002.00	23 \$	46,046
Relocate Storm Inlets	EA	\$ 3,299.00	2 \$	6,598
Sand Backfill and Bedding	TON	\$ 14.00	1142 \$	15,988
	Sub-total			\$ 292,595
Sub-surface Drains - under curb	LF	\$ 9.35	10,800 \$	94,536
Sub-surface Drains - swales	LF	\$ 9.00	1,477 \$	13,293
Sub-surface Drains - sump laterals	EA	\$ 90.00	71 \$	6,390
	Sub-total			\$ 114,219
	Total			\$ 406,814
Monuments & Markers				
Lot Corner Monuments	LOT	\$ 157.90	76 \$	12,000
Street Centerline Monumentation	EA	\$ 65.20	23 \$	1,500
	Total			\$ 13,500
Erosion Control				
	LS	NA	NA	NA
--> Not Applicable - Property annexed by City of Carmel and governed by Carmel MS4 permit.				
	Total			\$ -
Grand Total				\$ 420,314

BY: 

Timothy J. Walter, P.E.
 Indiana Registration No. 19900152

BEFORE THE HAMILTON COUNTY DRAINAGE BOARD
IN THE MATTER OF

Williams Creek Drain, Clay Corner 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, Clay Corner Arm on October 23, 2017 at 9:05 A.M. in Commissioners Court, Hamilton County Judicial Center, One Hamilton County Square, Noblesville, Indiana, and which construction and maintenance reports of the Surveyor and the Schedule of Assessments made by the Drainage Board have been filed and are available for public inspection in the office of the Hamilton County Surveyor.

Hamilton County Drainage Board

Attest: Lynette Mosbaugh

ONE TIME ONLY

BEFORE THE HAMILTON COUNTY DRAINAGE BOARD
IN THE MATTER OF THE

Williams Creek Drain, Clay Corner Arm

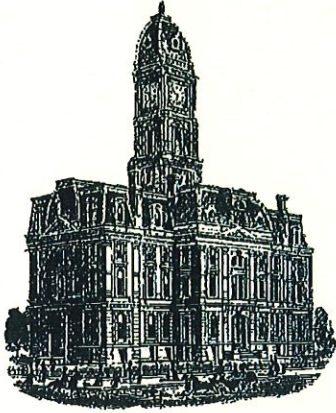
NOTICE

Notice is hereby given pursuant to Section 405 of the 1965 Indiana Drainage Code that this Board, prior to final adjournment on **October 23, 2017** 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



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

June 4, 2018

Re: Williams Creek Drain: Clay Corner

Attached are as-built, certificate of completion & compliance, and other information for Clay Corner. 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 August 7, 2017. The report was approved by the Board at the hearing held October 23, 2017. (See Drainage Board Minutes Book 17, Pages 503-504) The changes are as follows: the 12' RCP was shortened from 995 feet to 985 feet. The 15" RCP was shortened from 729 feet to 728 feet. The 18" RCP was shortened from 251 feet to 245 feet. The 21" RCP was lengthened from 904 feet to 909 feet. The 24" RCP was shortened from 602 feet to 563 feet. The 6" SSD was lengthened from 11,001 feet to 11,162 feet. The open ditch was lengthened from 555 feet to 602 feet. The length of the drain due to the changes described above is now **15,581 feet**.

The non-enforcement was approved by the Board at its meeting on October 24, 2017 and recorded under instrument #2018009258. Sureties were not submitted 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: CLAY CORNER SUBDIVISION

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: BDF Date: 5/14/18

Type or Print Name: BRIAN D FISHER

Business Address: 8901 OTIS AVENUE

INDIANAPOLIS, IN 46037

Telephone Number: 317-826-7145



INDIANA REGISTRATION NUMBER

19800229

CERTIFICATION FOR "RECORD DRAWING"

BDF

CERTIFIED BY: BRIAN D. FISHER P.E.

THE SCHNEIDER CORPORATION
 HISTORIC FORT HARRISON
 8901 OTIS AVENUE
 INDIANAPOLIS, INDIANA 46216
 (317) 826-7100 FAX (317) 826-7200

DATE: 02/16/2018

NOTE:
 I, BRIAN FISHER, CERTIFY THAT THE IMPROVEMENTS HAVE BEEN INSTALLED IN REASONABLE COMPLIANCE WITH THE ORIGINAL DESIGN PLANS WITH RESPECT TO HORIZONTAL LOCATIONS AND GRADES AND ANY DEVIATIONS OF LOCATIONS, GRADES OR MATERIAL USED ARE SHOWN IN THESE "AS-BUILT" DRAWINGS (PLANS).
 Record drawing certification only for horizontal locations of sanitary sewer, sanitary laterals, storm sewer, sub-surface drain, above ground fire hydrants and water valves, and for vertical grades of swales, roadway centerlines and curbs, and residential pads. Storm drainage system substantially complies with the approved construction plans.

NOTE:
 SEE SHEET C112 FOR OVERLAND FLOW ROUTES, AREAS OF INUNDATION, FLOOD PROTECTION ELEVATIONS AND LOWEST ADJACENT GRADE ELEVATIONS.

NOTE:
 STORM SEWER CASTINGS TO BE LABELED "DUMP NO WASTE - DRAINS TO WATERWAY"

NOTE:
 ALL ALLEYS ARE PRIVATE. STORM SEWER SYSTEM IS PUBLIC



- LEGEND**
- Existing Storm Sewer
 - New Storm Sewer
 - Existing Sanitary Sewer
 - New Sanitary Sewer
 - Existing Contour
 - Existing Elevation
 - New Pavement Grade
 - All Other Finish Grades
 - Match Existing Grades
 - Storm Structure Number
 - Sanitary Structure Number
 - Flow Arrow
 - 6" Subsurface Drain
 - 4" SSD Lot Lateral
 - Swale (S) with Elevation
 - Water Main
 - Existing Trees
 - Existing Gas Main
 - Existing Telephone
 - Existing Water Main
 - Existing Flowline
 - Existing Overhead Utilities
 - Minimum Finished Floor Elevation
 - Minimum Pad Elevation -2.7ft.
 - Minimum Flood Protection Grade
 - Minimum Lowest Adjacent Grade
 - Pad Elevation
 - PE 000.00
 - Limits of Disturbance
 - Curb and Gutter
 - Valley Curb and Gutter

- GENERAL NOTES**
- 1) ALL GRADES AT BOUNDARY SHALL MEET EXISTING GRADES.
 - 2) IT SHALL BE THE RESPONSIBILITY OF EACH CONTRACTOR TO VERIFY ALL EXISTING UTILITIES AND CONDITIONS PERTAINING TO HIS PHASE OF WORK. IT SHALL ALSO BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNERS OF THE VARIOUS UTILITIES FOR PROPER STAKE LOCATIONS FOR EACH UTILITY BEFORE WORK IS STARTED. THE CONTRACTOR SHALL NOTIFY IN WRITING THE OWNER OR THE ENGINEER OF ANY CHANGES, OMISSIONS, OR ERRORS FOUND ON THESE PLANS OR IN THE FIELD BEFORE WORK IS STARTED OR RESUMED.
 - 3) UTILITY RELOCATIONS REQUIRED BY THE PROJECT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER. UTILITY LINE RELOCATIONS REQUIRED FOR ROAD PROJECTS THAT RESULT IN A CONFLICT WITH PROPOSED DEVELOPMENT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO RESOLVE WITH THE UTILITY. EXISTING POLE LINES REQUIRED TO BE RELOCATED SHALL BE RELOCATED TO WITHIN ONE FOOT OF PROPOSED RIGHT-OF-WAY LINE.
 - 4) ALL EXISTING PERIMETER ROAD DRAINAGE STRUCTURES AND BRIDGES ACROSS THE FRONTAGE OF THIS DEVELOPMENT ARE INDICATED ON THE PLANS. PROVISIONS HAVE BEEN MADE TO IMPROVE OR REPLACE ANY DRAINAGE STRUCTURES AND BRIDGES AS NECESSARY OR AS REQUESTED BY THE CITY TO ACCOMMODATE THE PAVEMENT FINISHING, AUXILIARY LANES, MULTI-USE PATH, AND ANY OTHER REQUIRED IMPROVEMENTS TO THE PROPERTY OR THE ROADWAY. THE COST TO IMPROVE OR REPLACE ANY DRAINAGE STRUCTURES AND BRIDGES WILL BE BORNE BY THE DEVELOPER.
 - 5) DAMAGE TO THE EXISTING RIGHT-OF-WAY SHALL BE RESTORED/REPAIRED TO THE SATISFACTION OF THE CITY AT THE COMPLETION OF THE PROJECT. THE CONTRACTOR IS ENCOURAGED TO INSPECT THE RIGHT-OF-WAY WITH THE CITY PRIOR TO THE START OF CONSTRUCTION TO DOCUMENT THE EXISTING CONDITION OF THE RIGHT-OF-WAY.
 - 6) ALL PAVING WITHIN THE EXISTING AND PROPOSED CITY RIGHT-OF-WAY SHALL CONFORM TO THE REQUIREMENTS OF THE DEPARTMENT OF ENGINEERING. THE CONTRACTOR SHALL CONTACT THE DEPARTMENT OF ENGINEERING TO SCHEDULE A PRE-CONSTRUCTION MEETING TO REVIEW THE DEPARTMENT'S CONSTRUCTION REQUIREMENTS, STAFF NOTIFICATION REQUIREMENTS, REQUIRED INSPECTIONS FOR CERTAIN STAGES OF THE WORK AND TO REVIEW THE AUTHORITY OF THE DEPARTMENT AS IT RELATES TO WORK WITHIN THE EXISTING AND PROPOSED RIGHT-OF-WAY. STANDARD SPECIFICATIONS FOR THE HAMILTON COUNTY SURVEYOR SHALL APPLY FOR ALL STORM SEWER.
 - 7) THE SIZE AND LOCATION OF EXISTING UTILITIES SHOWN ARE PER INFORMATION PROVIDED BY THE RESPECTIVE UTILITY COMPANIES. ALL UTILITY COMPANIES SHOULD BE NOTIFIED PRIOR TO ANY EXCAVATION FOR FIELD LOCATION OF SERVICES.
 - 8) SERVICE WALKS SHALL BE NON-REINFORCED CONCRETE 4" THICK AND 4' IN WIDTH.
 - 9) 4" CONCRETE SERVICE WALK ACROSS FRONTAGE OF EACH LOT TO BE CONSTRUCTED BY OTHERS.
 - 10) EXPANSION JOINTS AREA TO BE PLACED AT ALL WALL INTERSECTIONS AND BETWEEN WALLS AND PLATFORMS. SIDEWALK JOINTS ARE TO BE EQUALLY SPACED BETWEEN EXPANSION JOINTS, CONSTRUCTION JOINTS AND PERPENDICULAR TO SIDEWALKS AT 5' INTERVALS OR LESS WITH A CONSTRUCTION JOINT EVERY 20' OR LESS.
 - 11) ALL STREET CUTS MUST BE SAW CUT, REMOVED AND REPLACED.
 - 12) ALL EXISTING CURB REMOVAL IS TO BE TO THE NEAREST JOINT PAST THE REQUIRED LIMITS OF CURB REMOVAL FOR THE PROPOSED ENTRANCE.
 - 13) TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL AND STATE STANDARDS.
 - 14) ALL CONSTRUCTION ACTIVITY ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH APPLICABLE O.S.H.A. STANDARDS FOR WORKER SAFETY.
 - 15) CONTRACTOR SHALL MINIMIZE DAMAGE TO EXISTING TREES. REMOVE AND BACKFILL ALL AREAS WHERE ANY FIELD TILE CROSSES PROPOSED HOUSE PADS. ALL FIELD TILES INTERCEPTED TO BE PERPETUATED INTO STORM SEWER SYSTEM OR LARG. THE SUBCONTRACTOR SHALL NOTIFY IN WRITING THE OWNER AND THE ENGINEER IN ANY CIRCUMSTANCES WHERE THIS CANNOT BE ACCOMPLISHED.
 - 16) ALL FILL AREAS (ENGINEERED FILL) SHALL BE COMPACTED TO AT LEAST 98 PERCENT OF THE STANDARD DRY DENSITY (ASTM D-1557). FILL UNDER THE FOOTING SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY (ASTM D-1557). FILL SHOULD EXHIBIT A MAXIMUM DRY DENSITY OF AT LEAST 105 PCF AND HAVE A LIQUID LIMIT LESS THAN 50 AND PLASTICITY INDEX OF LESS THAN 25. SANDY FILL MUST HAVE LESS THAN 15% FINES PASSING A #200 SIEVE.
 - 17) WATERMAIN VALVES SHALL NOT BE LOCATED UNDER PAVEMENT, SIDEWALK OR CURB.
 - 18) 100 YEAR FLOODPLAINS, FLOODWAY FRINGS AND FLOODWAYS: NONE
 - 19) THE EARTHWORK FOR THE SITE IS EXPECTED TO BALANCE. NO OFF-SITE DISPOSAL OR BORROW AREAS ARE ANTICIPATED. IF NECESSARY CONTRACTOR SHALL NOTIFY CITY OF BORROW OR DISPOSAL AREAS.
 - 20) ALL ALLEY CURB RETURNS SHALL BE 10' RADIUS UNLESS OTHERWISE NOTED.
 - 21) ALL STORM SEWER LOCATED WITHIN THE ALLEY SHALL BE PRIVATE STORM SEWER UNLESS OTHERWISE NOTED.

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: *SLM*

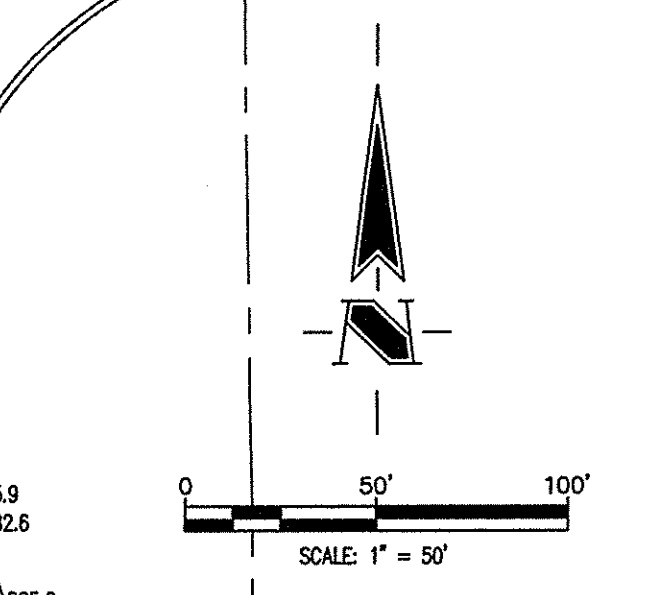
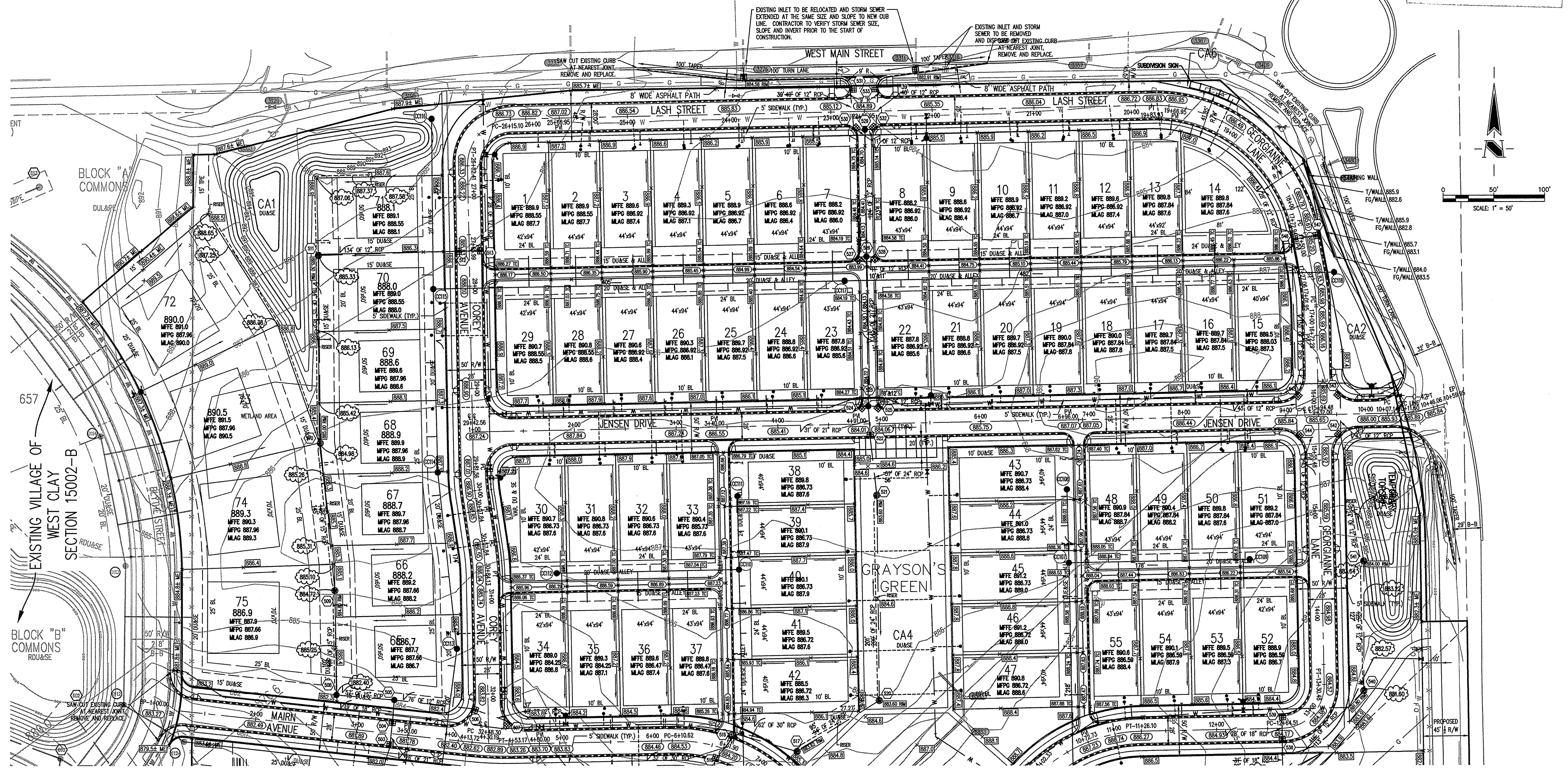
Entered by: *2018*

REVISIONS:
 1. INF. 2/16/18

DATE: 02/16/2018

THIS DRAWING AND THE IDEAS, DESIGNS AND CONCEPTS CONTAINED HEREIN ARE THE EXCLUSIVE INTELLECTUAL PROPERTY OF THE SCHNEIDER CORPORATION, AND ARE NOT TO BE USED, REPRODUCED, IN WHOLE OR IN PART, WITHOUT THE WRITTEN CONSENT OF THE SCHNEIDER CORPORATION.

© COPYRIGHTED BY THE SCHNEIDER CORP. (2018)



Schneider

THE SCHNEIDER CORPORATION
 Historic Fort Harrison
 8901 Otis Avenue
 Indianapolis, IN 46216-1037
 Telephone: 317.826.7100
 Fax: 317.826.7200
 www.schneidercorp.com

Civil Engineering
 GIS * LIS
 Land Surveying
 Landscape Architecture

CLAY CORNER

SOUTHWEST CORNER OF W. MAIN ST. & CLAY CENTER ROAD

CLAY CORNER DEVELOPER, LLC

9757 WESTPOINT DRIVE, SUITE 600, INDIANAPOLIS, IN 46256

DATE: 07/31/17	PROJECT NO.: 1238.1601
DRAWN BY: TLS	CHECKED BY: BDF
SHEET TITLE: DEVELOPMENT PLAN	
DRAWING FILES:	
SHEET NO.: C101	

SEE SHEET C102 FOR CONTINUATION



CERTIFICATION FOR "RECORD DRAWING"

B.D.F.
 CERTIFIED BY: BRIAN D. FISHER P.E.
 THE SCHNEIDER CORPORATION
 HISTORIC FORT HARRISON
 8901 OTIS AVENUE
 INDIANAPOLIS, INDIANA 46216
 (317) 826-7100 FAX (317) 826-7200

DATE: 02/16/2018

NOTE:
 I, BRIAN FISHER, CERTIFY THAT THE IMPROVEMENTS HAVE BEEN INSTALLED IN REASONABLE COMPLIANCE WITH THE ORIGINAL DESIGN PLANS WITH RESPECT TO HORIZONTAL LOCATIONS AND GRADES AND ANY DEVIATIONS OF LOCATIONS, GRADES OR MATERIAL USED ARE SHOWN IN THESE "AS-BUILT" DRAWINGS (PLANS).
 Record drawing certification only for horizontal locations of sanitary sewer, sanitary laterals, storm sewer, sub-surface drain, above ground fire hydrants and water valves, and for vertical grades of swales, roadway centerlines and curbs, and residential pads. Storm drainage system substantially complies with the approved construction plans.

BENCHMARK

TBM #44
 USGS BENCHMARK
 CUT "X" NORTH BONNET BOLT IN FIRE HYDRANT
 EAST SIDE HOOVER RD. ±100' SOUTH OF CLARIDGE
 FARM ENTRANCE.
 ELEVATION = 893.39

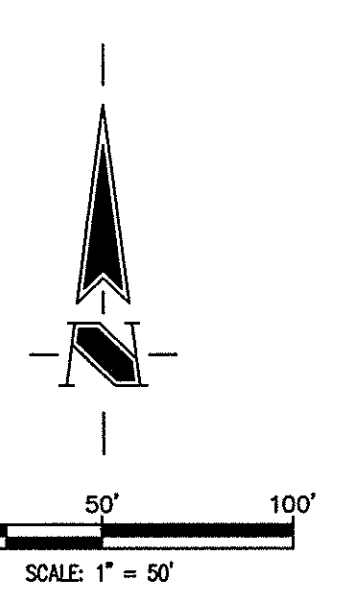
NOTE:
 ALL ELEVATIONS GIVEN ARE IN NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD). ALL HORIZONTAL DATUM IS BASED ON INDIANA STATE PLANE COORDINATES, NAD83.

NOTE:
 STORM SEWER CASTINGS TO BE LABELED
 "DUMP NO WASTE - DRAINS TO WATERWAY"

NOTE:
 ALL ALLEYS ARE PRIVATE.
 STORM SEWER SYSTEM IS PUBLIC

NOTE:
 SEE SHEET C112 FOR OVERLAND FLOW ROUTES, AREAS OF INUNDATION, FLOOD PROTECTION ELEVATIONS AND LOWEST ADJACENT GRADE ELEVATIONS.

- LEGEND**
- Existing Storm Sewer
 - New Storm Sewer
 - Existing Sanitary Sewer
 - New Sanitary Sewer
 - Existing Contour
 - Existing Elevation
 - New Pavement Grade
 - All Other Finish Grades
 - Match Existing Grades
 - Storm Structure Number
 - Sanitary Structure Number
 - Flow Arrow
 - 6" Subsurface Drain
 - 4" SSD Lot Lateral
 - Swale (S) with Elevation
 - Water Main
 - Existing Gas Main
 - Existing Telephone
 - Existing Water Main
 - Existing Flowline
 - Existing Overhead Utilities
 - Minimum Finished Floor Elevation
 - Minimum Flood Protection Grade
 - Minimum Lowest Adjacent Grade
 - Pad Elevation
 - Limits of Disturbance
 - Curb and Gutter
 - Valley Curb and Gutter

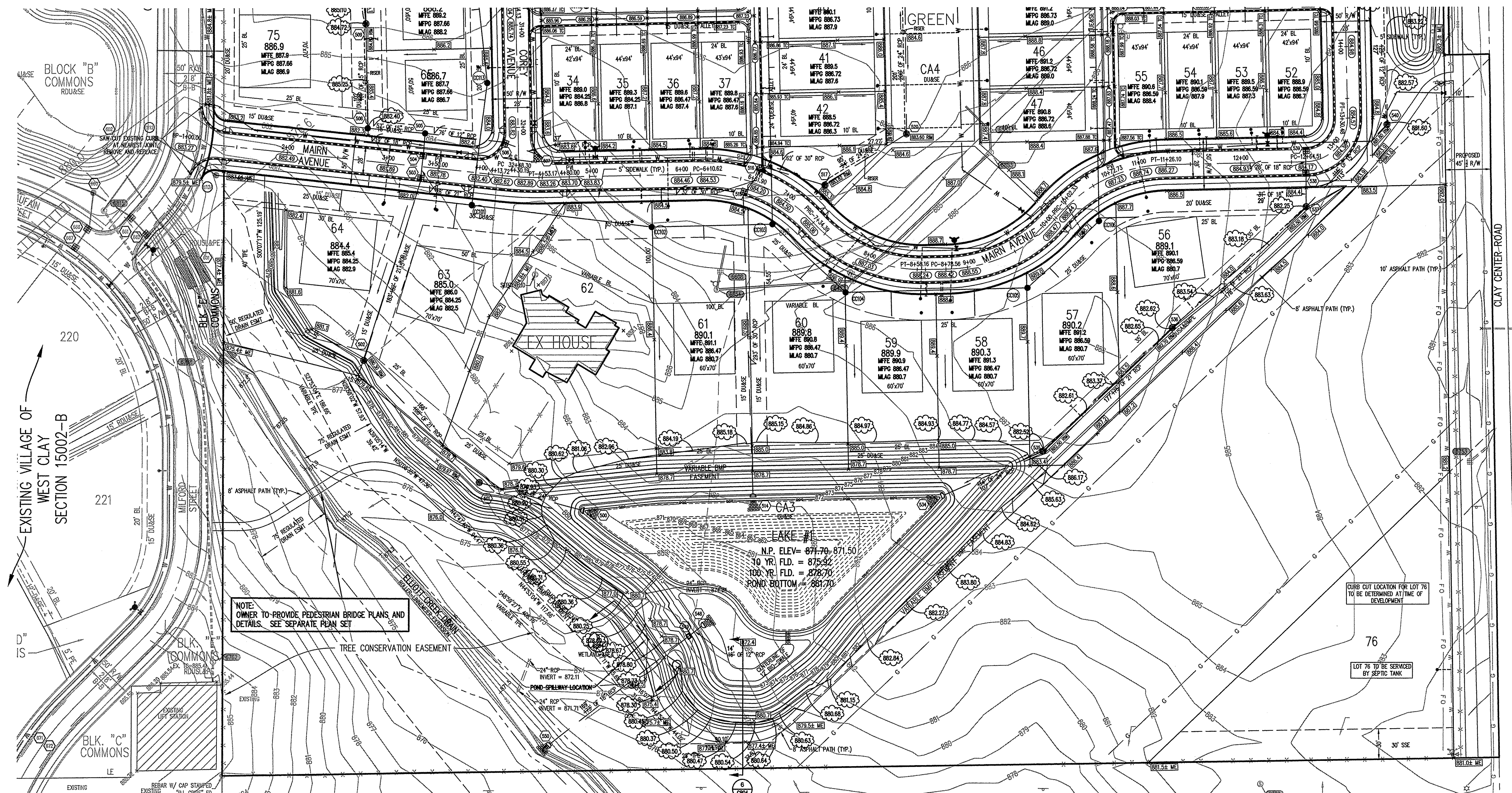


GENERAL NOTES

- 1) ALL GRADES AT BOUNDARY SHALL MEET EXISTING GRADES.
- 2) IT SHALL BE THE RESPONSIBILITY OF EACH CONTRACTOR TO VERIFY ALL EXISTING UTILITIES AND CONDITIONS PERTAINING TO HIS PHASE OF WORK. IT SHALL ALSO BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNERS OF THE VARIOUS UTILITIES FOR PROPER STAKE LOCATIONS FOR EACH UTILITY BEFORE WORK IS STARTED. THE CONTRACTOR SHALL NOTIFY IN WRITING THE OWNER OR THE ENGINEER OF ANY CHANGES, OMISSIONS, OR ERRORS FOUND ON THESE PLANS OR IN THE FIELD BEFORE WORK IS STARTED OR RESUMED.
- 3) UTILITY RELOCATIONS REQUIRED BY THE PROJECT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER. UTILITY LINE RELOCATIONS REQUIRED FOR ROAD PROJECTS THAT RESULT IN A CONFLICT WITH PROPOSED DEVELOPMENT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO RESOLVE WITH THE UTILITY. EXISTING POLE LINES REQUIRED TO BE RELOCATED SHALL BE RELOCATED TO WITHIN ONE FOOT OF PROPOSED RIGHT-OF-WAY LINE.
- 4) ALL EXISTING PERMETER ROAD DRAINAGE STRUCTURES AND BRIDGES ACROSS THE FRONTAGE OF THIS DEVELOPMENT ARE INDICATED ON THE PLANS. PROVISIONS HAVE BEEN MADE TO IMPROVE OR REPLACE ANY DRAINAGE STRUCTURES AND BRIDGES AS NECESSARY OR AS REQUESTED BY THE CITY TO ACCOMMODATE THE PAVEMENT WIDENING, AUXILIARY LANES, MULTI-USE PATH, AND ANY OTHER REQUIRED IMPROVEMENTS TO THE PROPERTY OR THE ROADWAY. THE COST TO IMPROVE OR REPLACE ANY DRAINAGE STRUCTURES AND BRIDGES WILL BE BORNE BY THE DEVELOPER.
- 5) DAMAGE TO THE EXISTING RIGHT-OF-WAY SHALL BE RESTORED/REPAIRED TO THE SATISFACTION OF THE CITY AT THE COMPLETION OF THE PROJECT. THE CONTRACTOR IS ENCOURAGED TO INSPECT THE RIGHT-OF-WAY WITH THE CITY PRIOR TO THE START OF CONSTRUCTION TO DOCUMENT THE EXISTING CONDITION OF THE RIGHT-OF-WAY.
- 6) ALL PAVING WITHIN THE EXISTING AND PROPOSED CITY RIGHT-OF-WAY SHALL CONFORM TO THE REQUIREMENTS OF THE DEPARTMENT OF ENGINEERING. THE CONTRACTOR SHALL CONTACT THE DEPARTMENT OF ENGINEERING TO SCHEDULE A PRE-CONSTRUCTION MEETING TO REVIEW THE DEPARTMENT'S CONSTRUCTION REQUIREMENTS, START 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 RIGHT-OF-WAY.
- 7) STANDARD SPECIFICATIONS FOR THE HAMILTON COUNTY SURVEYOR SHALL APPLY FOR ALL STORM SEWERS.
- 8) THE SIZE AND LOCATION OF EXISTING UTILITIES SHOWN ARE PER INFORMATION PROVIDED BY THE RESPECTIVE UTILITY COMPANIES. ALL UTILITY COMPANIES SHOULD BE NOTIFIED PRIOR TO ANY EXCAVATION FOR FIELD LOCATION OF SERVICES.
- 9) SERVICE WALKS SHALL BE NON-REINFORCED CONCRETE 4" THICK AND 4' IN WIDTH.
- 10) 4" CONCRETE SERVICE WALK ACROSS FRONTAGE OF EACH LOT TO BE CONSTRUCTED BY OTHERS.
- 11) EXPANSION JOINTS AREA TO BE PLACED AT ALL WALK INTERSECTIONS AND BETWEEN WALKS AND PLATFORMS. SIDEWALK SCORES ARE TO BE EQUALLY SPACED BETWEEN EXPANSION JOINTS, CONSTRUCTION JOINTS AND PERPENDICULAR TO SIDEWALKS AT 5' INTERVALS OR LESS WITH A CONSTRUCTION JOINT EVERY 20' OR LESS.
- 12) ALL STREET CUTS MUST BE SAW CUT, REMOVED, AND REPLACED.
- 13) ALL EXISTING CURB REMOVAL IS TO BE TO THE NEAREST JOINT PAST THE REQUIRED LIMITS OF CURB REMOVAL FOR THE PROPOSED ENTRANCE.
- 14) TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL AND STATE STANDARDS.
- 15) ALL CONSTRUCTION ACTIVITY ON THIS SITE IS TO BE PERFORMED IN COMPLIANCE WITH APPLICABLE O.S.H.A. STANDARDS FOR WORKER SAFETY.
- 16) CONTRACTOR SHALL MINIMIZE DAMAGE TO EXISTING TREES.
- 17) REMOVE AND BACKFILL ALL AREAS WHERE ANY FIELD TILE CROSSES PROPOSED HOUSE PADS. ALL FIELD TILES INTERCEPTED TO BE PERPETUATED INTO STORM SEWER SYSTEM OR LAKE. THE SUBCONTRACTOR SHALL NOTIFY IN WRITING THE OWNER AND THE ENGINEER IN ANY CIRCUMSTANCES WHERE THIS CANNOT BE ACCOMPLISHED.
- 18) ALL FILL AREAS (ENGINEERED FILL) SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF THE STANDARD DRY DENSITY (ASTM D-1557). FILL UNDER THE FOOTING SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY (ASTM D-1557). FILL SHOULD EXHIBIT A MAXIMUM DRY DENSITY OF AT LEAST 105 PCF AND HAVE A LIQUID LIMIT LESS THAN 50 AND PLASTICITY INDEX OF LESS THAN 25. SANDY FILL MUST HAVE LESS THAN 15 X FINES PASSING A #200 SIEVE.
- 19) WATERMAN VALVES SHALL NOT BE LOCATED UNDER PAVEMENT, SIDEWALK OR CURB.
- 20) 100 YEAR FLOODPLAINS, FLOODWAY FRINGS AND FLOODWAYS: NONE
- 21) THE EARTHWORK FOR THE SITE IS EXPECTED TO BALANCE. NO OFF-SITE DISPOSAL OR BORROW AREAS ARE ANTICIPATED. IF NECESSARY CONTRACTOR SHALL NOTIFY CITY OF BORROW OR DISPOSAL AREAS.
- 22) ALL ALLEY CURB RETURNS SHALL BE 10' RADIUS UNLESS OTHERWISE NOTED.
- 23) ALL STORM SEWER LOCATED WITHIN THE ALLEY SHALL BE PRIVATE STORM SEWER UNLESS OTHERWISE NOTED.

**SANITARY SEWER
 STORM SEWER
 WATER LINE
 RECORD DRAWING**

SEE SHEET C101 FOR CONTINUATION



REVISIONS:
 1. MFE, 7/16/18
 2. MFE, 7/16/18

RECORD DRAWING PER AS BUILT FIELD DATA

This information was prepared for use in the Hamilton County Geographic Information System (GIS). This document is considered an official record of the Hamilton County GIS.

Drawn By: *BDF*
 Checked By: *BDF*
 Date: 02/16/18

THIS DRAWING AND THE IDEAS, DESIGNS AND CONCEPTS CONTAINED HEREIN ARE THE EXCLUSIVE INTELLECTUAL PROPERTY OF THE SCHNEIDER CORPORATION, AND ARE NOT TO BE USED OR REPRODUCED, IN WHOLE OR IN PART, WITHOUT THE WRITTEN CONSENT OF THE SCHNEIDER CORPORATION.

© COPYRIGHTED BY THE SCHNEIDER CORP. (2018)

Schneider

THE SCHNEIDER CORPORATION
 HISTORIC FORT HARRISON
 8901 OTIS AVENUE
 INDIANAPOLIS, IN 46216-1037
 Telephone: 317.826.7100
 Fax: 317.826.7200
 www.schneidercorp.com

Civil Engineering
 GIS * LIS
 Land Surveying
 Landscape Architecture

CLAY CORNER

SOUTHWEST CORNER OF W. MAIN ST. & CLAY CENTER ROAD

CLAY CORNER DEVELOPER, LLC
 9767 WESTPOINT DRIVE, SUITE 600, INDIANAPOLIS, IN 46256

DATE: 07/31/17 PROJECT NO.: 1238.1601
 DRAWN BY: TLS CHECKED BY: BDF
 SHEET TITLE: DEVELOPMENT PLAN

DRAWING FILES:
 1. 1238.1601_01.dwg
 2. 1238.1601_02.dwg
 3. 1238.1601_03.dwg
 4. 1238.1601_04.dwg
 5. 1238.1601_05.dwg
 6. 1238.1601_06.dwg
 7. 1238.1601_07.dwg
 8. 1238.1601_08.dwg
 9. 1238.1601_09.dwg
 10. 1238.1601_10.dwg
 11. 1238.1601_11.dwg
 12. 1238.1601_12.dwg
 13. 1238.1601_13.dwg
 14. 1238.1601_14.dwg
 15. 1238.1601_15.dwg
 16. 1238.1601_16.dwg
 17. 1238.1601_17.dwg
 18. 1238.1601_18.dwg
 19. 1238.1601_19.dwg
 20. 1238.1601_20.dwg
 21. 1238.1601_21.dwg
 22. 1238.1601_22.dwg
 23. 1238.1601_23.dwg
 24. 1238.1601_24.dwg
 25. 1238.1601_25.dwg
 26. 1238.1601_26.dwg
 27. 1238.1601_27.dwg
 28. 1238.1601_28.dwg
 29. 1238.1601_29.dwg
 30. 1238.1601_30.dwg
 31. 1238.1601_31.dwg
 32. 1238.1601_32.dwg
 33. 1238.1601_33.dwg
 34. 1238.1601_34.dwg
 35. 1238.1601_35.dwg
 36. 1238.1601_36.dwg
 37. 1238.1601_37.dwg
 38. 1238.1601_38.dwg
 39. 1238.1601_39.dwg
 40. 1238.1601_40.dwg
 41. 1238.1601_41.dwg
 42. 1238.1601_42.dwg
 43. 1238.1601_43.dwg
 44. 1238.1601_44.dwg
 45. 1238.1601_45.dwg
 46. 1238.1601_46.dwg
 47. 1238.1601_47.dwg
 48. 1238.1601_48.dwg
 49. 1238.1601_49.dwg
 50. 1238.1601_50.dwg
 51. 1238.1601_51.dwg
 52. 1238.1601_52.dwg
 53. 1238.1601_53.dwg
 54. 1238.1601_54.dwg
 55. 1238.1601_55.dwg
 56. 1238.1601_56.dwg
 57. 1238.1601_57.dwg
 58. 1238.1601_58.dwg
 59. 1238.1601_59.dwg
 60. 1238.1601_60.dwg
 61. 1238.1601_61.dwg
 62. 1238.1601_62.dwg
 63. 1238.1601_63.dwg
 64. 1238.1601_64.dwg
 65. 1238.1601_65.dwg
 66. 1238.1601_66.dwg
 67. 1238.1601_67.dwg
 68. 1238.1601_68.dwg
 69. 1238.1601_69.dwg
 70. 1238.1601_70.dwg
 71. 1238.1601_71.dwg
 72. 1238.1601_72.dwg
 73. 1238.1601_73.dwg
 74. 1238.1601_74.dwg
 75. 1238.1601_75.dwg
 76. 1238.1601_76.dwg
 77. 1238.1601_77.dwg
 78. 1238.1601_78.dwg
 79. 1238.1601_79.dwg
 80. 1238.1601_80.dwg
 81. 1238.1601_81.dwg
 82. 1238.1601_82.dwg
 83. 1238.1601_83.dwg
 84. 1238.1601_84.dwg
 85. 1238.1601_85.dwg
 86. 1238.1601_86.dwg
 87. 1238.1601_87.dwg
 88. 1238.1601_88.dwg
 89. 1238.1601_89.dwg
 90. 1238.1601_90.dwg
 91. 1238.1601_91.dwg
 92. 1238.1601_92.dwg
 93. 1238.1601_93.dwg
 94. 1238.1601_94.dwg
 95. 1238.1601_95.dwg
 96. 1238.1601_96.dwg
 97. 1238.1601_97.dwg
 98. 1238.1601_98.dwg
 99. 1238.1601_99.dwg
 100. 1238.1601_100.dwg

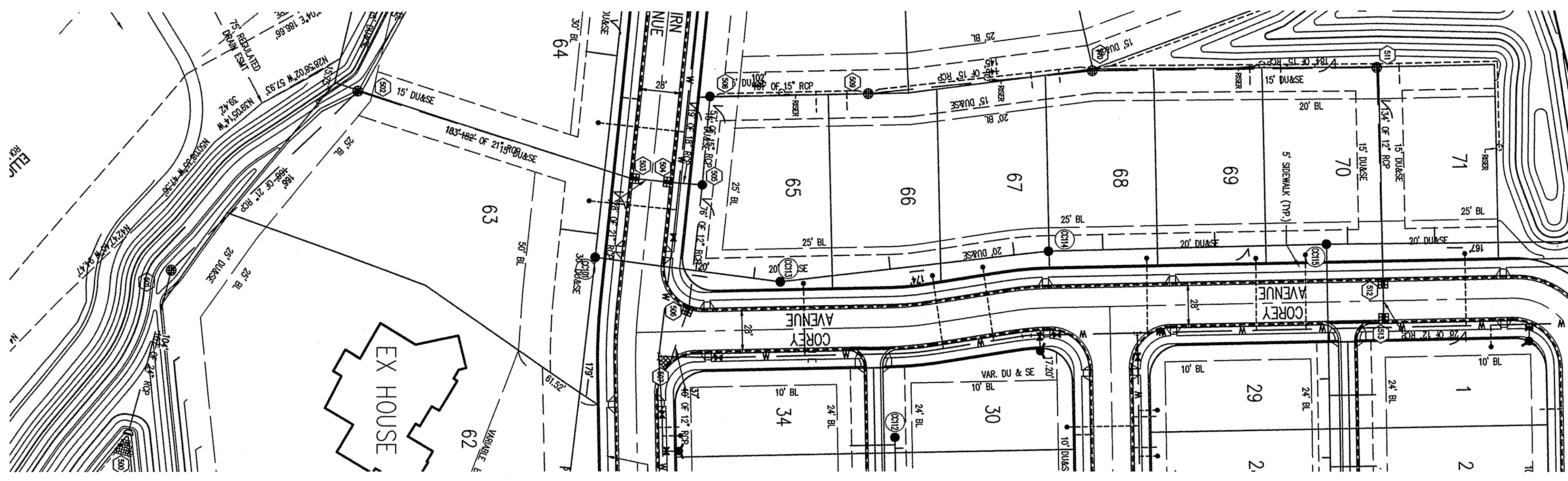
SHEET NO.: **C102**

Plot Date: Feb. 16, 2018
 Plot Time: 10:59am
 File Name: T:\1\1238\1601\dwgs\RD\C601-C605.dwg, Layout: C601
 By: Hranahani

Sheet	Date	Description
C604	1	Bedding Detail - Reinforced Concrete Pipe (RCP)
C604	3	Roll Curb Inlet Detail
C604	4	Beehive Inlet Detail
C604	2	Storm Manhole Detail
C604	5	Precast Concrete End Section
C604	6	Riprap Detail @ End Section



- GENERAL NOTES**
- TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL AND STATE STANDARDS.
 - ALL CONSTRUCTION ACTIVITY ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH APPLICABLE O.S.H.A. STANDARDS FOR WORKER SAFETY.
 - IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY ALL UTILITY LOCATIONS BEFORE CONSTRUCTION BEGINS.
 - CONTRACTORS SHALL MINIMIZE DAMAGE TO EXISTING TREES.
 - REMOVE AND BACKFILL ALL AREAS WHERE ANY FIELD TILE CROSSES PROPOSED HOUSE PADS. ALL FIELD TILES INTERCEPTED TO BE PERPETUATED INTO STORM SEWER SYSTEM OR LAKE. THE CONTRACTOR SHALL NOTIFY IN WRITING THE OWNER AND THE ENGINEER IN ANY CIRCUMSTANCES WHERE THIS CANNOT BE ACCOMPLISHED.
 - ALL STORM SEWER CASTINGS SHALL BE STAMPED "DUMP NO WASTE, DRAINS TO WATERWAYS".
 - ALL STORM SEWER PIPES SHALL BE REINFORCED CONCRETE PIPE CLASS III, TYPE B.
 - ALL EXISTING STORM SEWER TO BE REMOVED OR FILLED WITH FLOWABLE FILL AND ABANDONED IN PLACE UNLESS OTHERWISE NOTED.

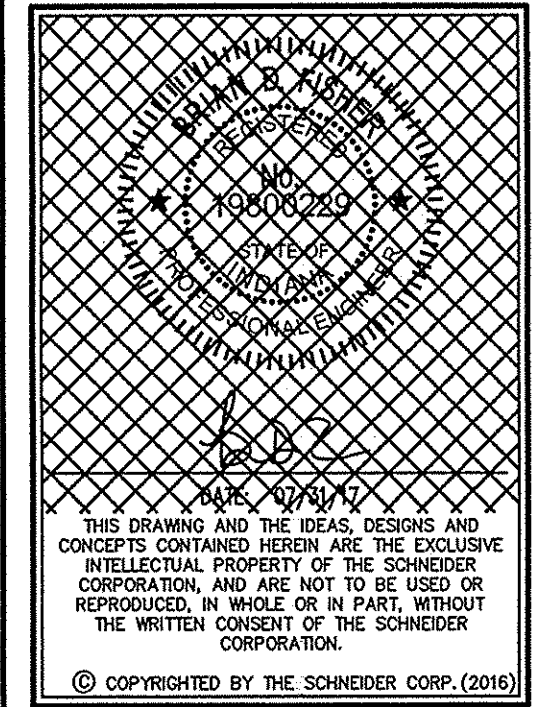


CERTIFICATION FOR "RECORD DRAWING"

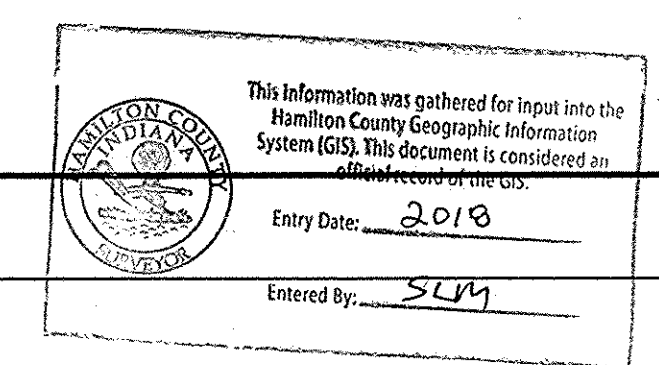
b.d.z.
 CERTIFIED BY: BRIAN D. FISHER P.E.
 THE SCHNEIDER CORPORATION
 HISTORIC FORT HARRISON
 8901 OTIS AVENUE
 INDIANAPOLIS, INDIANA 46216
 (317) 826-7100 FAX (317) 826-7200

DATE: 02/16/2018

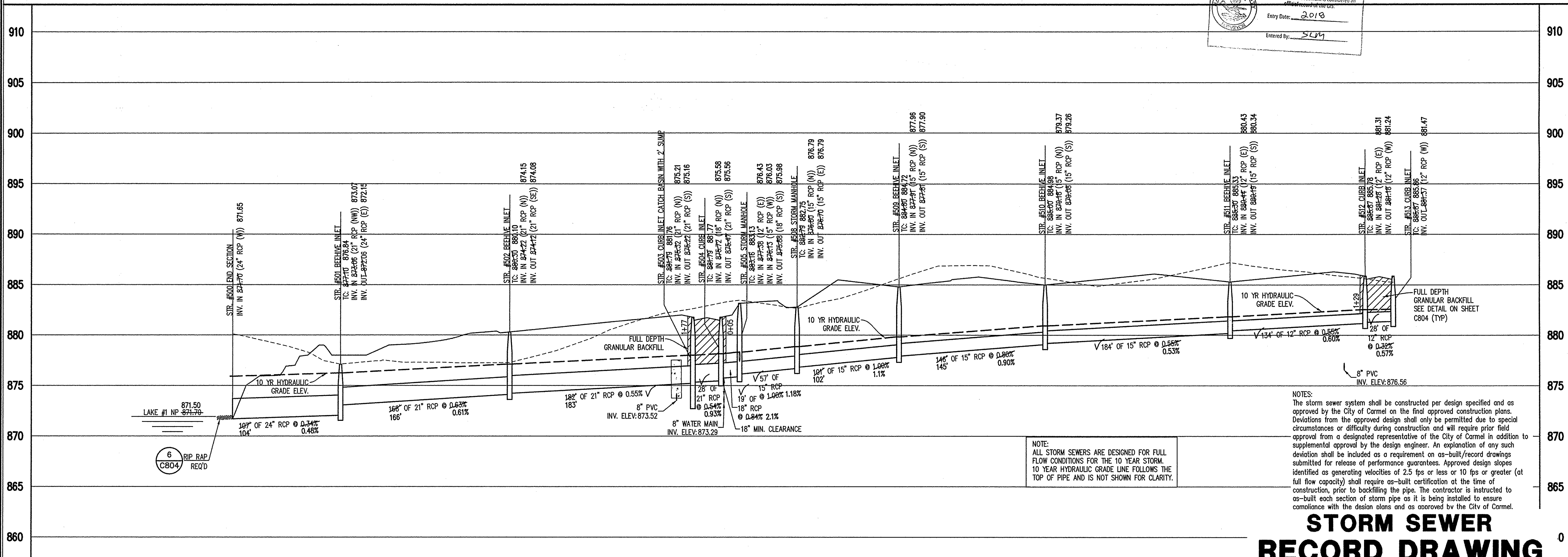
NOTE:
 I, BRIAN FISHER, CERTIFY THAT THE IMPROVEMENTS HAVE BEEN INSTALLED IN REASONABLE COMPLIANCE WITH THE ORIGINAL DESIGN PLANS WITH RESPECT TO HORIZONTAL LOCATIONS AND GRADES AND ANY DEVIATIONS OF LOCATIONS, GRADES OR MATERIAL USED ARE SHOWN IN THESE "AS-BUILT" DRAWINGS (PLANS).
 Record drawing certification only for top of casting, invert elevations and lengths of pipe. Slope percentage represents a calculated figure and is for general information only.
 Storm drainage system substantially complies with the approved construction plans.



STORM SEWER PLAN



SCALE: 1"=50'



NOTE:
 ALL STORM SEWERS ARE DESIGNED FOR FULL FLOW CONDITIONS FOR THE 10 YEAR STORM. 10 YEAR HYDRAULIC GRADE LINE FOLLOWS THE TOP OF PIPE AND IS NOT SHOWN FOR CLARITY.

NOTES:
 The storm sewer system shall be constructed per design specified and as approved by the City of Carmel on the final approved construction plans. Deviations from the approved design shall only be permitted due to special circumstances or difficulty during construction and will require prior field approval from a designated representative of the City of Carmel in addition to supplemental approval by the design engineer. An explanation of any such deviation shall be included as a requirement on as-built/record drawings submitted for release of performance guarantees. Approved design slopes identified as generating velocities of 2.5 fps or less or 10 fps or greater (at full flow capacity) shall require as-built certification at the time of construction, prior to backfilling the pipe. The contractor is instructed to as-built each section of storm pipe as it is being installed to ensure compliance with the design plans and as approved by the City of Carmel.

STORM SEWER PROFILE

LEGEND

	Existing Grade
	New Grade
	Granular Backfill

SCALE: HORZ.: 1"=50'
 VERT.: 1"=5'

THE SCHNEIDER CORPORATION
 Historic Fort Harrison
 8901 Otis Avenue
 Indianapolis, IN 46216-1037
 Telephone: 317.826.7100
 Fax: 317.826.7200
 www.schneidercorp.com

Civil Engineering
 GIS * LIS
 Land Surveying
 Landscape Architecture

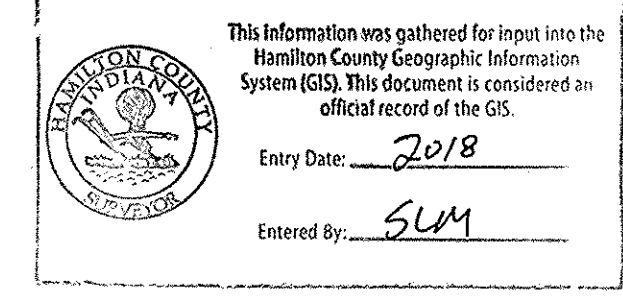
CLAY CORNER
 SOUTHWEST CORNER OF W. MAIN ST. & CLAY CENTER ROAD
CLAY CORNER DEVELOPER, LLC
 9757 WESTPOINT DRIVE, SUITE 600, INDIANAPOLIS, IN 46256

DATE: 07/31/17 PROJECT NO.: 1238.1601
 DRAWN BY: TLS CHECKED BY: BDF
 SHEET TITLE: STORM SEWER PLAN AND PROFILES
 DRAWING FILES:
 SHEET NO.: C601



GENERAL NOTES

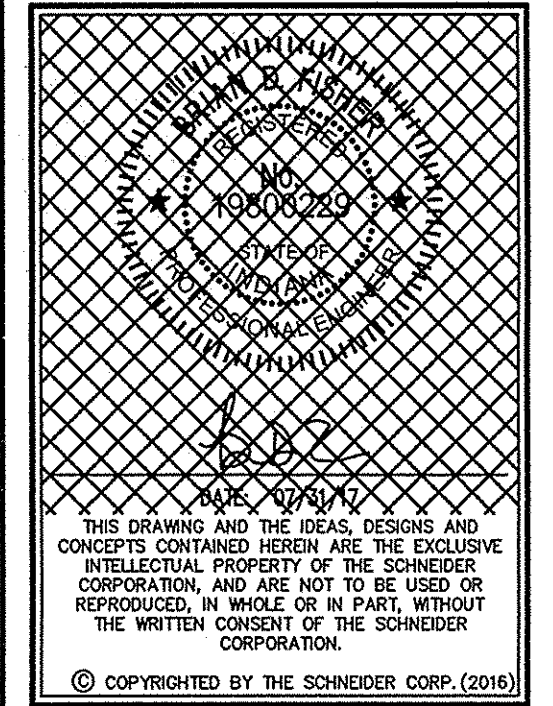
1. TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL AND STATE STANDARDS.
2. ALL CONSTRUCTION ACTIVITY ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH APPLICABLE O.S.H.A. STANDARDS FOR WORKER SAFETY.
3. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY ALL UTILITY LOCATIONS BEFORE CONSTRUCTION BEGINS.
4. CONTRACTORS SHALL MINIMIZE DAMAGE TO EXISTING TREES.
5. REMOVE AND BACKFILL ALL AREAS WHERE ANY FIELD TILE CROSSES PROPOSED HOUSE PADS. ALL FIELD TILES INTERCEPTED TO BE PERPETUATED INTO STORM SEWER SYSTEM OR LAKE. THE CONTRACTOR SHALL NOTIFY IN WRITING THE OWNER AND THE ENGINEER IN ANY CIRCUMSTANCES WHERE THIS CANNOT BE ACCOMPLISHED.
6. ALL STORM SEWER CASTINGS SHALL BE STAMPED "DUMP NO WASTE, DRAINS TO WATERWAYS".
7. ALL STORM SEWER PIPES SHALL BE REINFORCED CONCRETE PIPE CLASS III, TYPE B.
8. ALL EXISTING STORM SEWER TO BE REMOVED OR FILLED WITH FLOWABLE FILL AND ABANDONED IN PLACE UNLESS OTHERWISE NOTED.



LEGEND

	C804 5 Precast Concrete End Section
	C804 6 RipRap Detail End Section

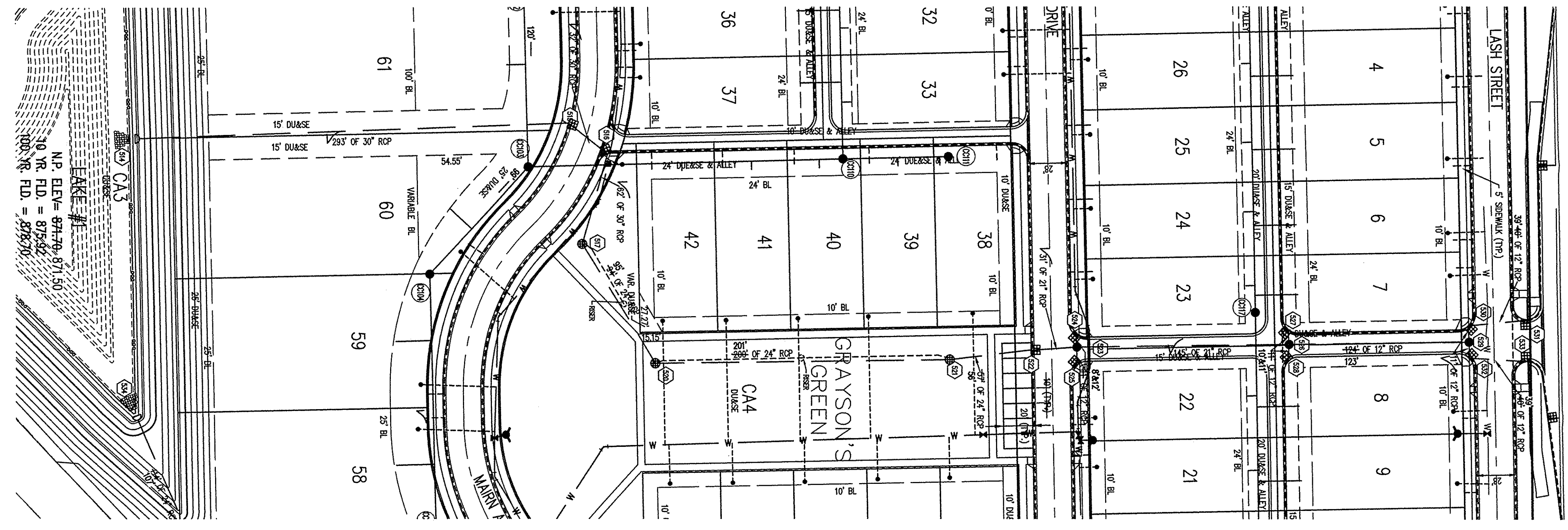
REVISIONS:
1. 02/16/2018 RECORD DRAWING PER AS BUILT FIELD DATA



Schneider
THE SCHNEIDER CORPORATION
Historic Fort Harrison
8901 Otis Avenue
Indianapolis, IN 46216-1037
Telephone: 317.826.7100
Fax: 317.826.7200
www.schneidercorp.com

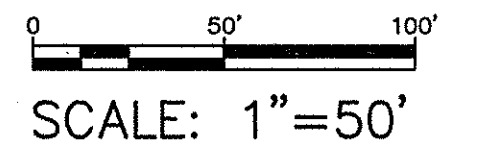
Civil Engineering
GIS * LIS
Land Surveying
Landscape Architecture

CLAY CORNER
SOUTHWEST CORNER OF W. MAIN ST. & CLAY CENTER ROAD
CLAY CORNER DEVELOPER, LLC
9767 WESTPOINT DRIVE, SUITE 600, INDIANAPOLIS, IN 46256

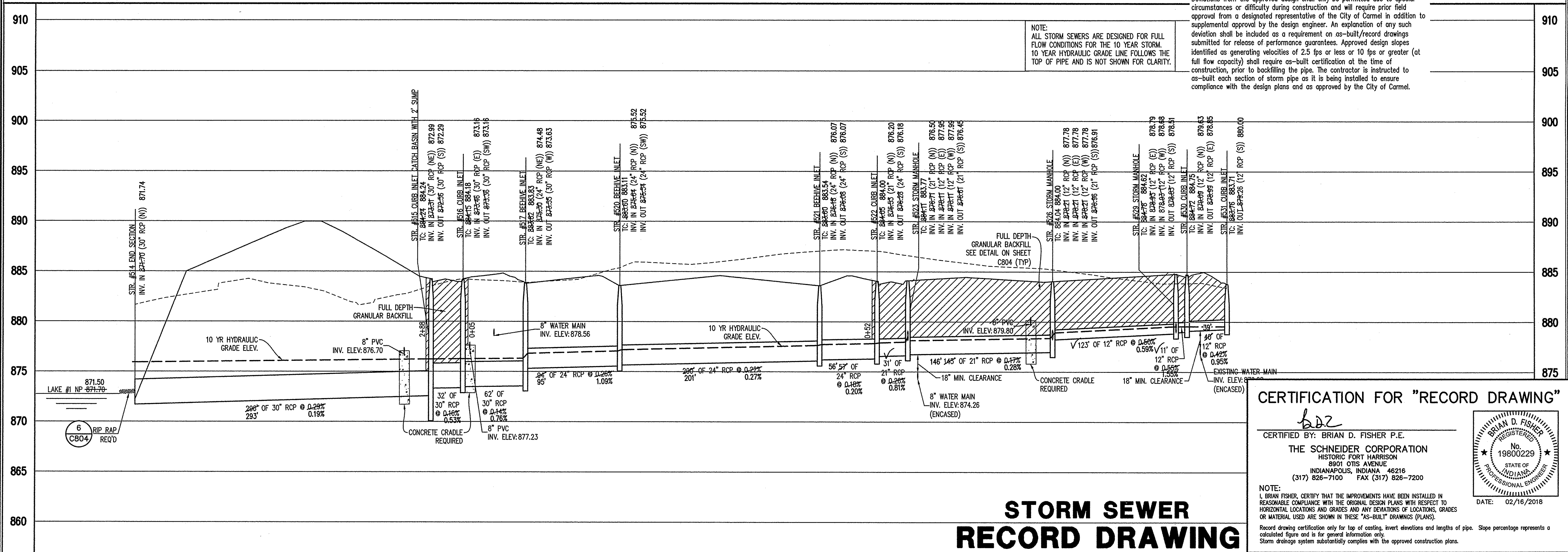


STORM SEWER PLAN

NOTES:
The storm sewer system shall be constructed per design specified and as approved by the City of Carmel on the final approved construction plans. Deviations from the approved design shall only be permitted due to special circumstances or difficulty during construction and will require prior field approval from a designated representative of the City of Carmel in addition to supplemental approval by the design engineer. An explanation of any such deviation shall be included as a requirement on as-built/record drawings submitted for release of performance guarantees. Approved design slopes identified as generating velocities of 2.5 fps or less or 10 fps or greater (at full flow capacity) shall require as-built certification at the time of construction, prior to backfilling the pipe. The contractor is instructed to as-built each section of storm pipe as it is being installed to ensure compliance with the design plans and as approved by the City of Carmel.



NOTE:
ALL STORM SEWERS ARE DESIGNED FOR FULL FLOW CONDITIONS FOR THE 10 YEAR STORM. 10 YEAR HYDRAULIC GRADE LINE FOLLOWS THE TOP OF PIPE AND IS NOT SHOWN FOR CLARITY.



LEGEND

	Existing Grade
	New Grade
	Granular Backfill

SCALE: **HORZ.: 1"=50'**
VERT.: 1"=5'

SHEET NO.: **C602**

File Name: T:\1\1238\1601\dwgs\RD\C601-C605.dwg, Layout: C602
Plot Date: Feb 16, 2018
Plot Time: 2:27pm
By: hfrachoni

GENERAL NOTES

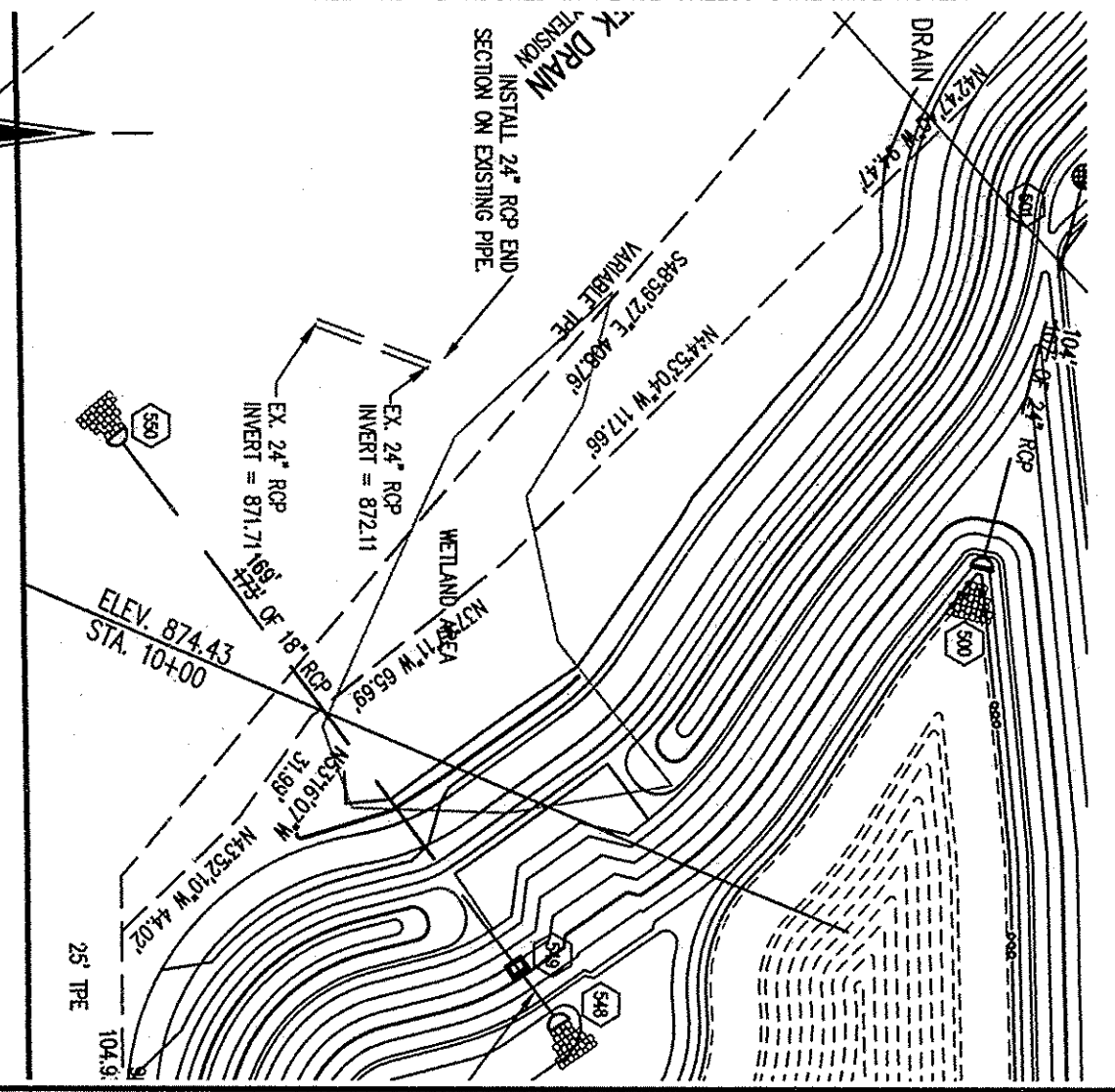
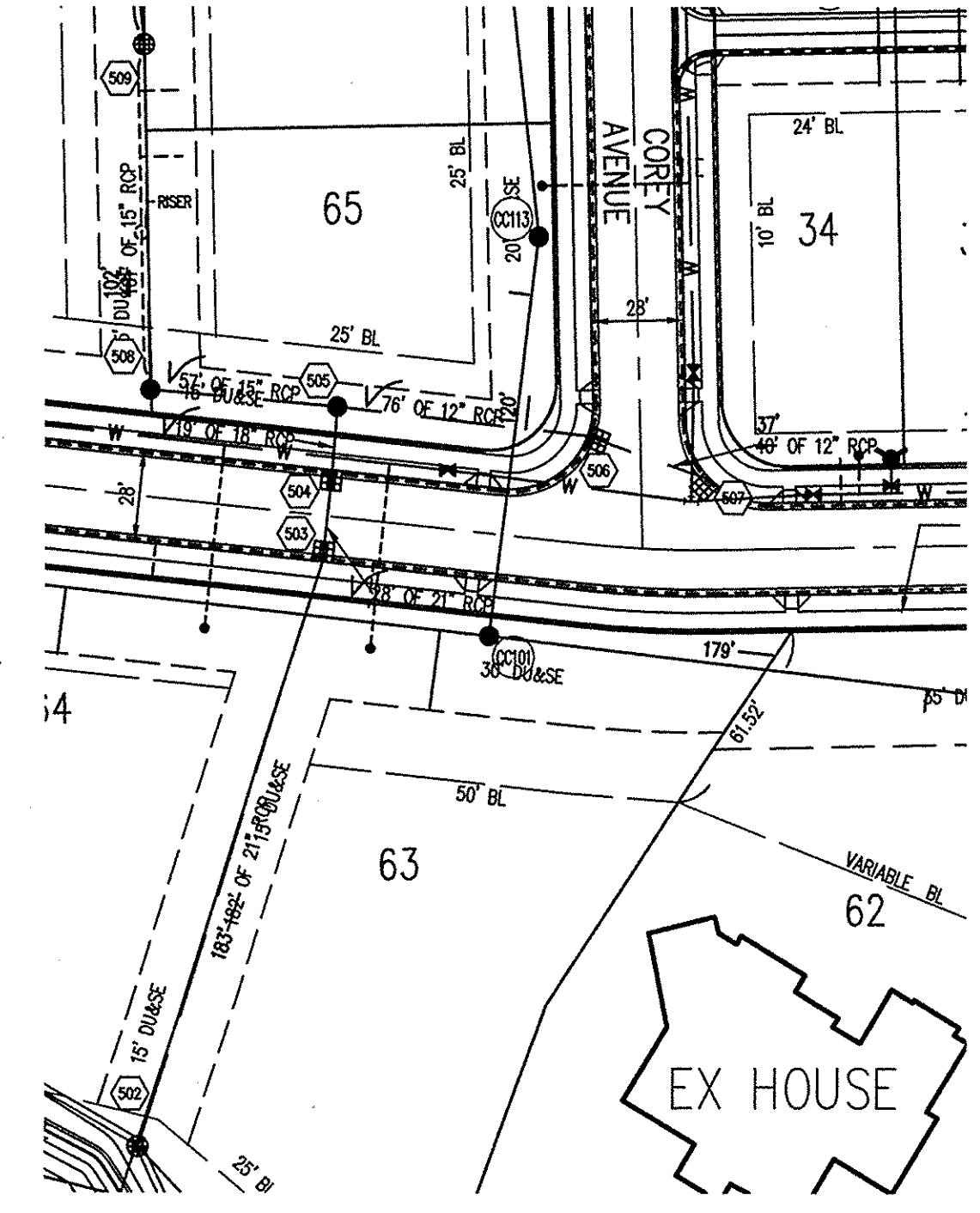
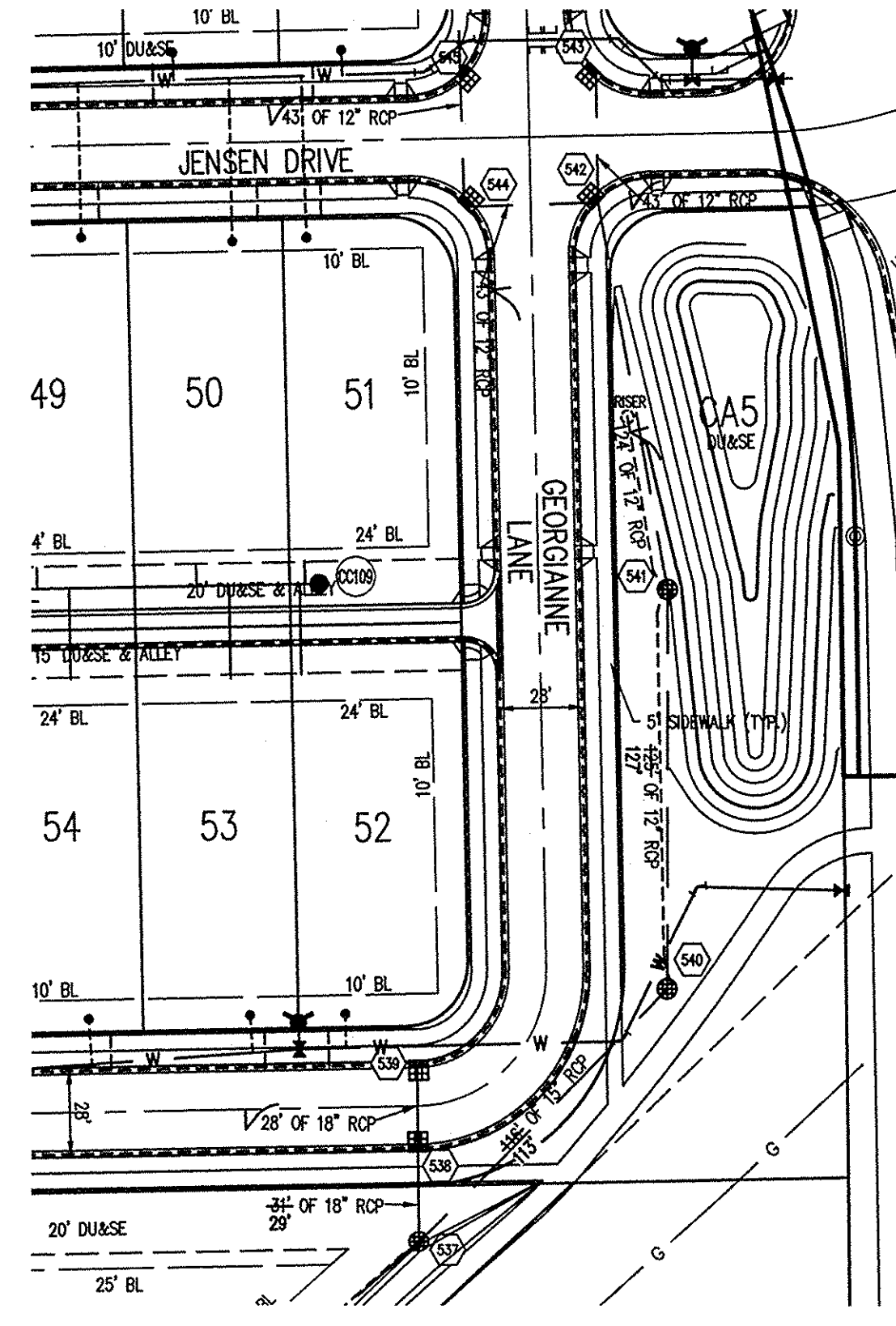
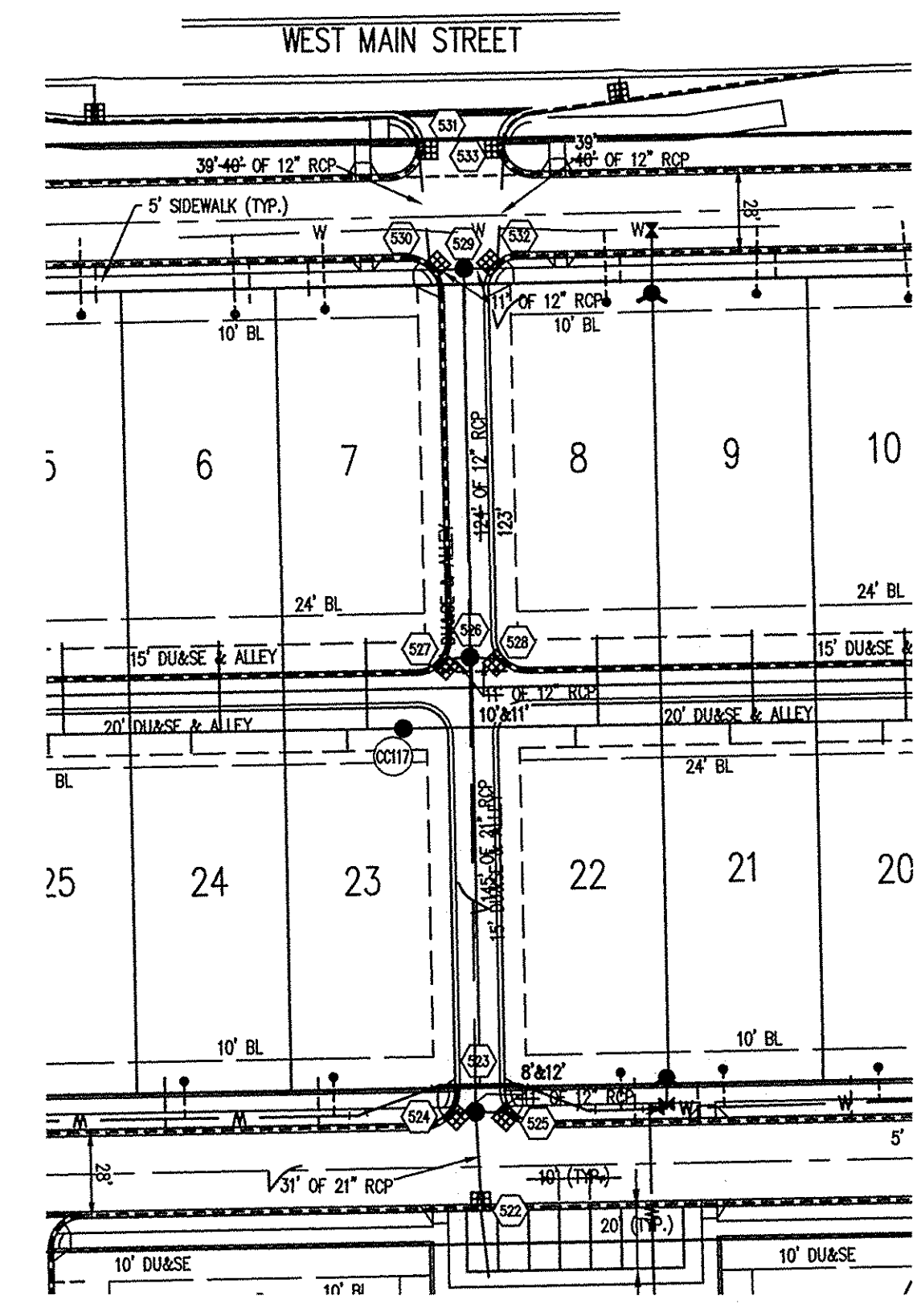
1. TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL AND STATE STANDARDS.
2. ALL CONSTRUCTION ACTIVITY ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH APPLICABLE O.S.H.A. STANDARDS FOR WORKER SAFETY.
3. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY ALL UTILITY LOCATIONS BEFORE CONSTRUCTION BEGINS.
4. CONTRACTORS SHALL MINIMIZE DAMAGE TO EXISTING TREES.
5. REMOVE AND BACKFILL ALL AREAS WHERE ANY FIELD TILE CROSSES PROPOSED HOUSE PADS. ALL FIELD TILES INTERCEPTED TO BE PERPETUATED INTO STORM SEWER SYSTEM OR LAKE. THE CONTRACTOR SHALL NOTIFY IN WRITING THE OWNER AND THE ENGINEER IN ANY CIRCUMSTANCES WHERE THIS CANNOT BE ACCOMPLISHED.
6. ALL STORM SEWER CASTINGS SHALL BE STAMPED "DUMP NO WASTE, DRAINS TO WATERWAYS".
7. ALL STORM SEWER PIPES SHALL BE REINFORCED CONCRETE PIPE CLASS III, TYPE B.
8. ALL EXISTING STORM SEWER TO BE REMOVED OR FILLED WITH FLOWABLE FILL AND ABANDONED IN PLACE UNLESS OTHERWISE NOTED.



LEGEND/DETAILS

Sheet	Description
CB04 1	Bedding Detail - Reinforced Concrete Pipe (RCP)
CB04 3	Roll Curb Inlet Detail
CB04 4	Beehive Inlet Detail
CB04 2	Storm Manhole Detail
CB04 5	Precast Concrete End Section
CB04 6	Rip/Rap Detail @ End Section

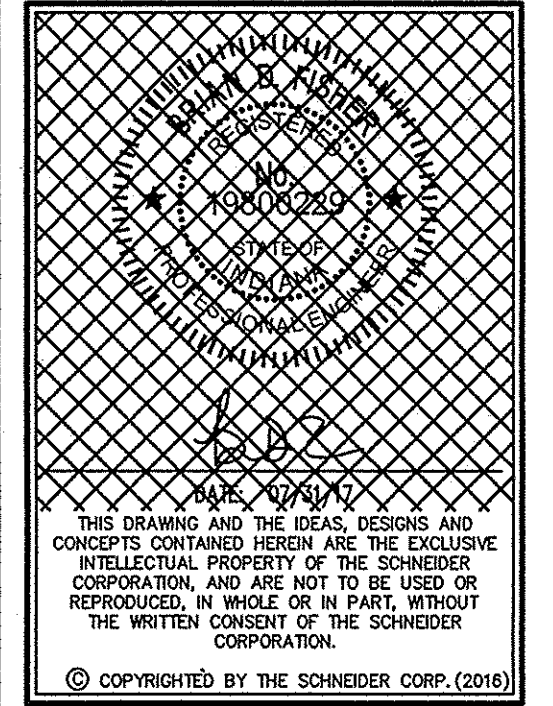
NOTE



STORM SEWER PLAN

NOTES:
The storm sewer system shall be constructed per design specified and as approved by the City of Carmel on the final approved construction plans. Deviations from the approved design shall only be permitted due to special circumstances or difficulty during construction and will require prior field approval from a designated representative of the City of Carmel in addition to supplemental approval by the design engineer. An explanation of any such deviation shall be included as a requirement on as-built/record drawings submitted for release of performance guarantees. Approved design slopes identified as generating velocities of 2.5 fps or less or 10 fps or greater (at full flow capacity) shall require as-built certification at the time of construction, prior to backfilling the pipe. The contractor is instructed to as-build each section of storm pipe as it is being installed to ensure compliance with the design plans and as approved by the City of Carmel.

SCALE: 1"=50'



Schneider
THE SCHNEIDER CORPORATION
Historic Fort Harrison
8901 Otis Avenue
Indianapolis, IN 46216-1037
Telephone: 317.826.7100
Fax: 317.826.7200
www.schneidercorp.com

Civil Engineering
GIS * LIS
Land Surveying
Landscape Architecture

CLAY CORNER
SOUTHWEST CORNER OF W. MAIN ST. & CLAY CENTER ROAD
CLAY CORNER DEVELOPER, LLC
9767 WESTPOINT DRIVE, SUITE 600, INDIANAPOLIS, IN 46256

DATE: 07/31/17	PROJECT NO.: 1238.1601
DRAWN BY: TJS	CHECKED BY: BDF
SHEET TITLE: STORM SEWER PLAN AND PROFILES	
DRAWING FILES:	
SHEET NO.:	

C603

NOTE:
ALL STORM SEWERS ARE DESIGNED FOR FULL FLOW CONDITIONS FOR THE 10 YEAR STORM. 10 YEAR HYDRAULIC GRADE LINE FOLLOWS THE TOP OF PIPE AND IS NOT SHOWN FOR CLARITY.

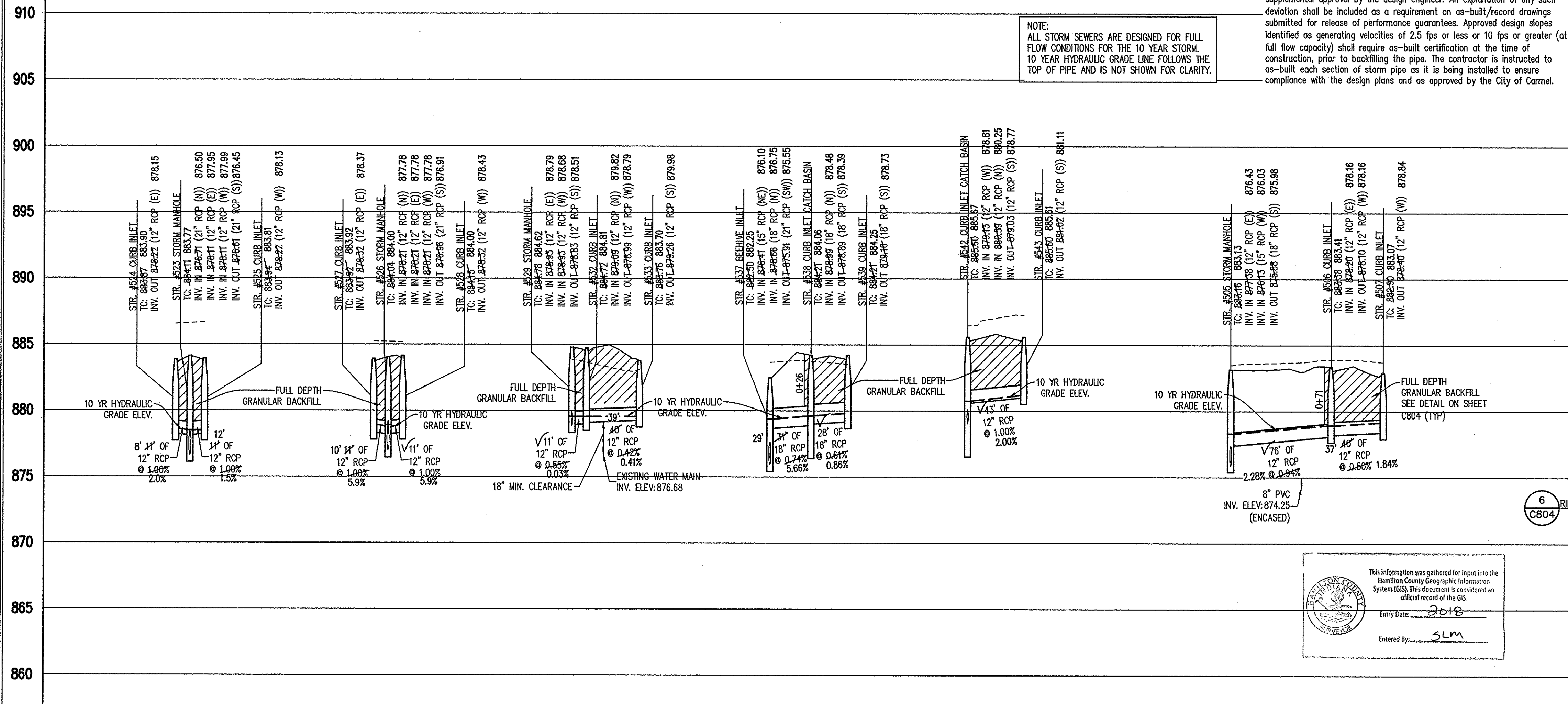
CERTIFICATION FOR "RECORD DRAWING"

CERTIFIED BY: BRIAN D. FISHER P.E.

THE SCHNEIDER CORPORATION
HISTORIC FORT HARRISON
8901 OTIS AVENUE
INDIANAPOLIS, INDIANA 46216
(317) 826-7100 FAX (317) 826-7200

DATE: 02/16/2018

NOTE:
I, BRIAN FISHER, CERTIFY THAT THE IMPROVEMENTS HAVE BEEN INSTALLED IN REASONABLE COMPLIANCE WITH THE ORIGINAL DESIGN PLANS WITH RESPECT TO HORIZONTAL LOCATIONS AND GRADES AND ANY DEVIATIONS OF LOCATIONS, GRADES OR MATERIAL USED ARE SHOWN IN THESE "AS-BUILT" DRAWINGS (PLANS).
Record drawing certification only for top of casting, invert elevations and lengths of pipe. Slope percentage represents a calculated figure and is for general information only.
Storm drainage system substantially complies with the approved construction plans.

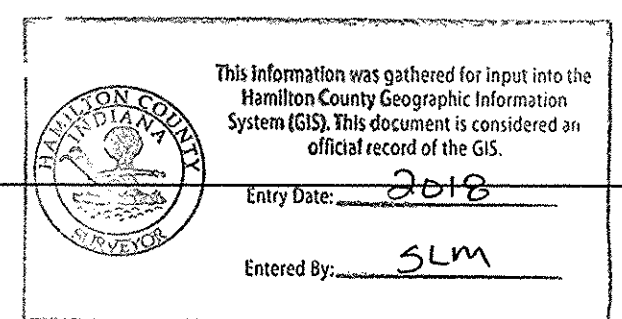


STORM SEWER PROFILE

LEGEND

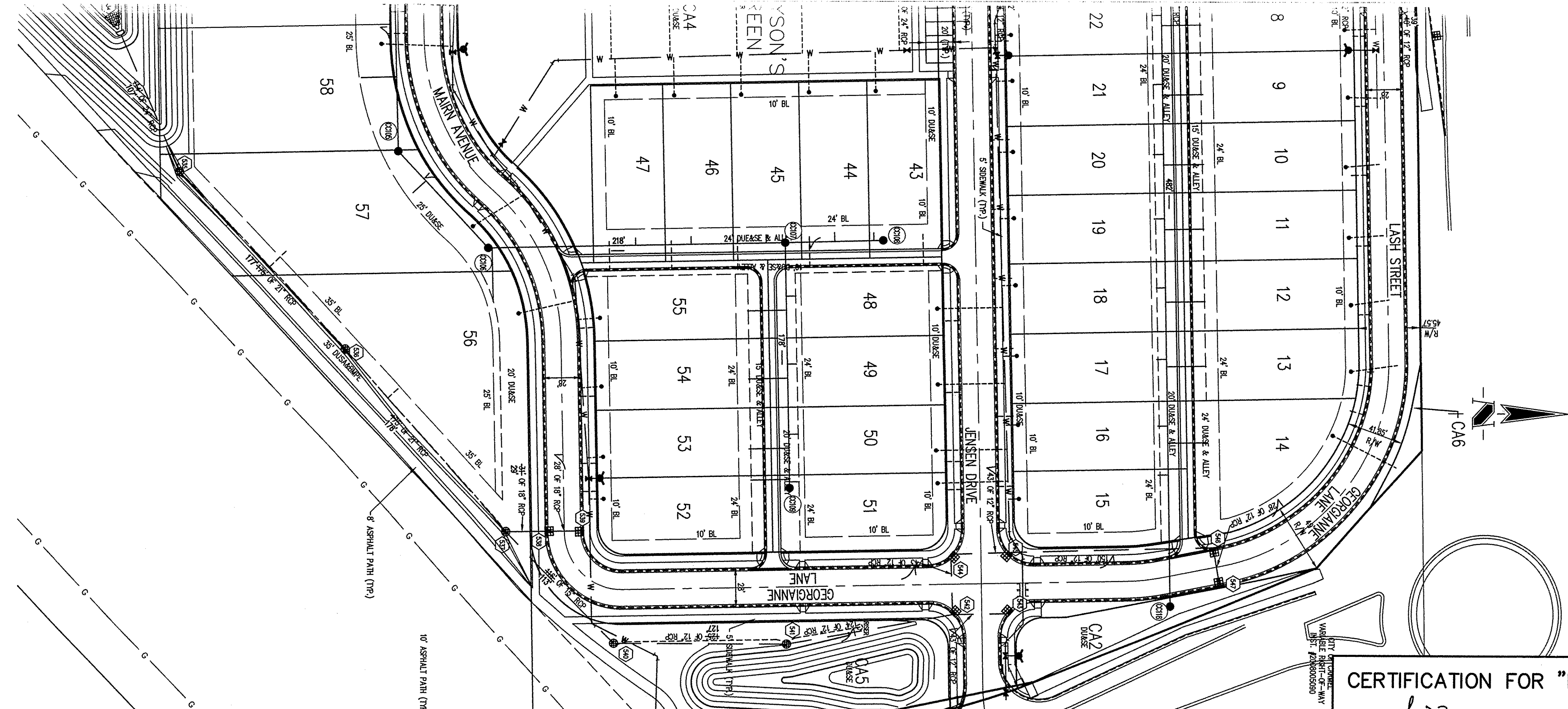
	Existing Grade
	New Grade
	Granular Backfill

SCALE: HORZ.: 1"=50'
VERT.: 1"=5'



STORM SEWER RECORD DRAWING

File Name: T:\1\1238\1601\dws\RD_C601-C605.dwg, Layout: C603
Plot Date: Feb 16, 2018
Plot Time: 11:05am
By: hforhani



- ### GENERAL NOTES
- TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO CONFORM TO APPLICABLE LOCAL AND STATE STANDARDS.
 - ALL CONSTRUCTION ACTIVITY ON THIS SITE TO BE PERFORMED IN COMPLIANCE WITH APPLICABLE O.S.H.A. STANDARDS FOR WORKER SAFETY.
 - IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY ALL UTILITY LOCATIONS BEFORE CONSTRUCTION BEGINS.
 - CONTRACTORS SHALL MINIMIZE DAMAGE TO EXISTING TREES.
 - REMOVE AND BACKFILL ALL AREAS WHERE ANY FIELD TILE CROSSES PROPOSED HOUSE PADS. ALL FIELD TILES INTERCEPTED TO BE PERPETUATED INTO STORM SEWER SYSTEM OR LAKE. THE CONTRACTOR SHALL NOTIFY IN WRITING THE OWNER AND THE ENGINEER IN ANY CIRCUMSTANCES WHERE THIS CANNOT BE ACCOMPLISHED.
 - ALL STORM SEWER CASTINGS SHALL BE STAMPED "DUMP NO WASTE, DRAINS TO WATERWAYS".
 - ALL STORM SEWER PIPES SHALL BE REINFORCED CONCRETE PIPE CLASS III, TYPE B.
 - ALL EXISTING STORM SEWER TO BE REMOVED OR FILLED WITH FLOWABLE FILL AND ABANDONED IN PLACE UNLESS OTHERWISE NOTED.

Sheet	Detail	Description
C804	1	Bedding Detail - Reinforced Concrete Pipe (RCP)
C804	3	Roll Curb Inlet Detail
C804	4	Beehive Inlet Detail
C804	2	Storm Manhole Detail
C804	5	Precast Concrete End Section
C804	6	RipRap Detail @ End Section

REVISIONS:
1. 11/2/16/18 RECORD DRAWINGS PER AS BUILT FIELD DATA

THIS DRAWING AND THE IDEAS, DESIGNS AND CONCEPTS CONTAINED HEREIN ARE THE EXCLUSIVE INTELLECTUAL PROPERTY OF THE SCHNEIDER CORPORATION, AND ARE NOT TO BE USED OR REPRODUCED, IN WHOLE OR IN PART, WITHOUT THE WRITTEN CONSENT OF THE SCHNEIDER CORPORATION.
© COPYRIGHTED BY THE SCHNEIDER CORP. (2016)

STORM SEWER PLAN

CERTIFICATION FOR "RECORD DRAWING"

CERTIFIED BY: *BDF* BRIAN D. FISHER P.E.
 THE SCHNEIDER CORPORATION
 HISTORIC FORT HARRISON
 8901 OTIS AVENUE
 INDIANAPOLIS, INDIANA 46216
 (317) 826-7100 FAX (317) 826-7200

NOTE:
 I, BRIAN FISHER, CERTIFY THAT THE IMPROVEMENTS HAVE BEEN INSTALLED IN REASONABLE COMPLIANCE WITH THE ORIGINAL DESIGN PLANS WITH RESPECT TO HORIZONTAL LOCATIONS AND GRADES AND ANY DEVIATIONS OF LOCATIONS, GRADES OR MATERIAL USED ARE SHOWN IN THESE "AS-BUILT" DRAWINGS (PLANS).
 Record drawing certification only for top of casting, invert elevations and lengths of pipe. Slope percentage represents a calculated figure and is for general information only.
 Storm drainage system substantially complies with the approved construction plans.

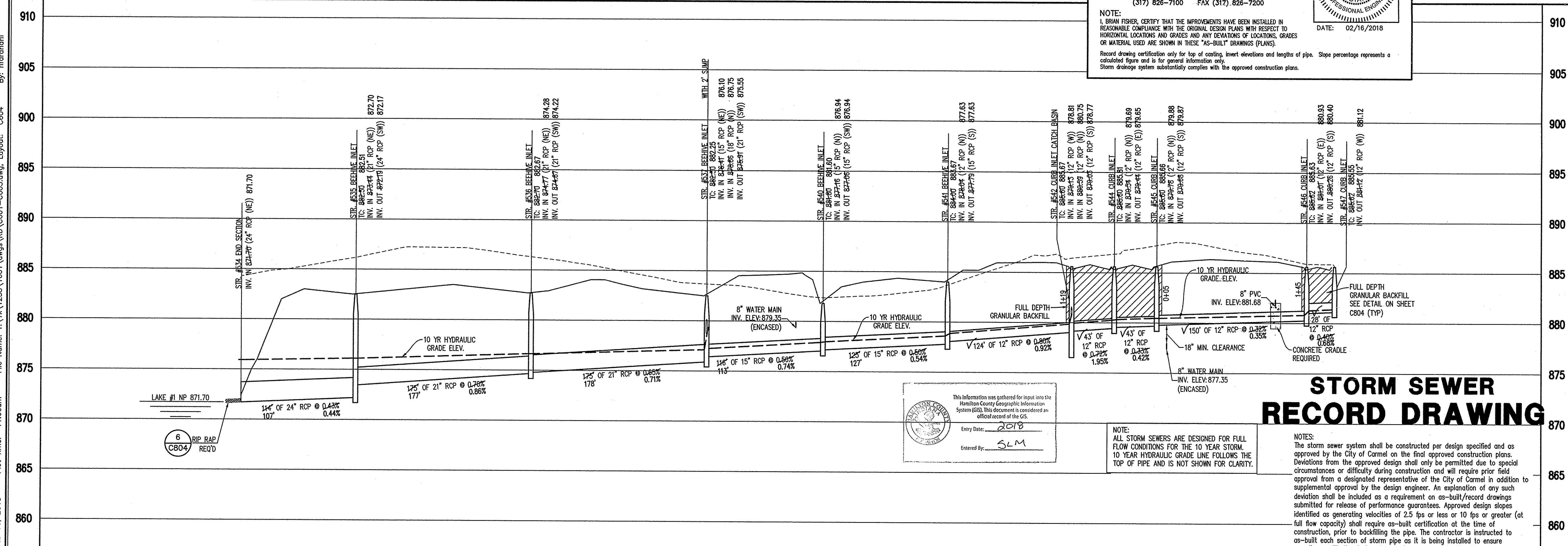
DATE: 02/16/2018

Know what's below.
Call before you dig.

SCALE: 1"=50'

THE SCHNEIDER CORPORATION
 Historic Fort Harrison
 8901 Otis Avenue
 Indianapolis, IN 46216-1037
 Telephone: 317.826.7100
 Fax: 317.826.7200
 www.schneidercorp.com

Civil Engineering
 GIS * LIS
 Land Surveying
 Landscape Architecture



STORM SEWER RECORD DRAWING

This information was gathered for input into the Hamilton County Geographic Information System (GIS). This document is considered an official record of the GIS.
 Entry Date: 2018
 Entered By: SLM

NOTE:
 ALL STORM SEWERS ARE DESIGNED FOR FULL FLOW CONDITIONS FOR THE 10 YEAR STORM. 10 YEAR HYDRAULIC GRADE LINE FOLLOWS THE TOP OF PIPE AND IS NOT SHOWN FOR CLARITY.

NOTES:
 The storm sewer system shall be constructed per design specified and as approved by the City of Carmel on the final approved construction plans. Deviations from the approved design shall only be permitted due to special circumstances or difficulty during construction and will require prior field approval from a designated representative of the City of Carmel in addition to supplemental approval by the design engineer. An explanation of any such deviation shall be included as a requirement on as-built/record drawings submitted for release of performance guarantees. Approved design slopes identified as generating velocities of 2.5 fps or less or 10 fps or greater (at full flow capacity) shall require as-built certification at the time of construction, prior to backfilling the pipe. The contractor is instructed to as-built each section of storm pipe as it is being installed to ensure compliance with the design plans and as approved by the City of Carmel.

LEGEND

	Existing Grade
	New Grade
	Granular Backfill

SCALE: HORZ.: 1"=50'
 VERT.: 1"=5'

CLAY CORNER

SOUTHWEST CORNER OF W. MAIN ST. & CLAY CENTER ROAD
 CLAY CORNER DEVELOPER, LLC
 9757 WESTPOINT DRIVE, SUITE 600, INDIANAPOLIS, IN 46256

DATE: 07/31/17	PROJECT NO.: 1238.1601
DRAWN BY: TLS	CHECKED BY: BDF
SHEET TITLE: STORM SEWER PLAN AND PROFILES	
DRAWING FILES:	
SHEET NO.: C604	

Plot Date: Feb 16, 2018 Plot Time: 11:06am File Name: T:\1\1238\1601\dwgs\RD_C601-C605.dwg, Layout: C604 By: Ifrahani