

EXISTING AGRICULTURAL DRAIN TILE INVESTIGATION PLAN

GRAYSLAKE HOA

Prepared for: CBBEL

Section no. 14, Avon Twp., Lake Co., IL

EXISTING SUBSURFACE AGRICULTURAL DRAIN TILE INVESTIGATION REPORT

GRAYSLAKE HOA
CBBEL

GRAYSLAKE HOA / CBBEL, FIELD FILE NO. 10-2-14, DATE: 7/14/25, IN ACCORDANCE WITH LAKE COUNTY STORM WATER COMMISSION DRAIN TILE INVESTIGATION STANDARDS. COPYRIGHT © 2025, BY HUDDLESTON MCBRIDE LAND DRAINAGE SERVICES

DESCRIPTION CHART NO. 1A:

ID NO.	SZ.	TYPE / QUALITY	FLOW %	SILT %	DEPTH (IN)	FIELD NOTES:
A1	6"	CLAY / GOOD	SLIGHT	SLIGHT	42"	ACTIVE FLOW RATE AND CAPACITY
B1	9"	CLAY / GOOD	FLOODED	20%	59"	RESTRICTED FLOW AND SURCHARGED

INVESTIGATION SLIT TRENCH LOCATIONS

HUDDLESTON MCBRIDE LAND DRAINAGE SERVICES

DESCRIPTION CHART NO. 1B:

DATA POINT	SZ.	TYPE / QUALITY	FLOW %	SILT %	DEPTH (IN)	FIELD NOTES:
1	6"	CLAY / GOOD	SLIGHT	SLIGHT	42"	LATERAL AT PROPERTY INGRESS
2	9"	CLAY / GOOD	FLOODED	20%	59"	MAINLINE AT PROPERTY INGRESS

SURVEY DATA POINT LOCATIONS

SITE LOCATION
Section no. 14, Avon Twp., Lake Co., IL

MAP LEGEND:

- EXISTING DRAIN TILE FLOW DIRECTION
- EX. POLYETHYLENE MAINLINE OR SYSTEM PART
- EX. CLAY DRAIN TILE MAINLINE OR SYSTEM PART
- EX. CONCRETE DRAIN TILE MAINLINE OR SYSTEM PART
- EXISTING DRAIN TILE CONTINUES TO UPLAND WATERSHED
- EXISTING DRAIN TILE OUTLETS TO SURFACE
- EXIST. DRAIN TILE (1) INSPECTION STRUCTURE // (2) CATCH BASIN
- EXIST. DRAIN TILE (1) LOCATED END // (2) ASSUMED END
- EXISTING DRAIN TILE CONTINUES TO OFF-SITE OUTLET SYSTEM
- EXISTING DRAIN TILE FAILURE, FLOW SURCHARGE TO SURFACE
- EXISTING DRAIN TILE "BLOWOUT" OR FAILURE
- EXISTING DRAIN TILE MAPPED BY SPECULATION AND ASSUMPTION
- EXISTING DRAIN TILE ABANDONED (NOT FUNCTIONAL)
- EXISTING DRAIN TILE "BLOWOUT" OR FAILURE
- HAND PROBE OR ELECTRONIC SCAN FOR DRAIN TILE LOCATION
- INVESTIGATION SLIT TRENCH FOR INVESTIGATION
- SPECIFIC PIT EXCAVATION FOR INVESTIGATION
- SURVEY DATA POINTS
- REPORT IDENTIFICATION NUMBER

REPORT LEGEND:

- ID NO. POINT OF EXCAVATION FOR SPECIFIC DRAIN TILE INVESTIGATION.
- SZ. (SIZE) DRAIN TILE INTERNAL DIAMETER IN INCHES.
- MATERIAL / QUALITY TYPE OF TILE MATERIALS, PIPE QUALITY - GOOD, FAIR & POOR.
- FLOW % PERCENTAGE OF TILE DIAMETER OCCUPIED BY ACTIVE FLOW.
- SILT % RESTRICTED OR BACKED UP FLOW, SURCHARGED CONDITION.
- DEPTH OF TILE DIAMETER OCCUPIED BY RESTRICTIVE SILT.
- ABANDONED, FILLED WITH SILT BLOCKAGE, NO FLOW POTENTIAL.
- MEASUREMENT FROM EXISTING GROUND LEVEL TO PIPE INVERT.

(GENERAL NOTES)

- MAINLINE TILE TRUNK LINE OR MUTUAL DRAIN, COLLECTOR OF SUB-SYSTEMS.
- SUB-MAIN TILE SECONDARY TRUNK LINE OR RANDOM SYSTEM COLLECTOR.
- LATERAL TILE FEEDER LINE, SERVICE TILE OR SYSTEM SPUR.
- "BLOWOUT" EXISTING SYSTEM PIPE FAILURE OR RESTRICTION.
- DRAIN TILE ENDS MAINLINE, SUB-MAIN OR LATERAL PLANNED TERMINATION.
- SLIT TRENCH INVESTIGATION TRENCH, TYPICAL 2'-0" WIDE x 6'-0" DEPTH.

SPECIAL NOTES:

- ALL EXISTING AGRICULTURAL DRAIN TILES LOCATED DURING THIS INVESTIGATION SURVEY HAVE BEEN IDENTIFIED ON THIS PLAN AND FIELD STAKED AT 50' INTERVALS. IN SOME OCCASIONS CERTAIN EXISTING LOCAL DRAIN TILE SECTIONS MAY BE SPECULATED AND CONSIDERED AS AN ASSUMED ROUTE WHICH SHALL BE DELINEATED ON THIS PLAN.
- ANY EXISTING DRAIN TILE NOT ENCOUNTERED DURING SLIT TRENCHING OR PROBE TRANSECT PROCEDURES WILL REMAIN UNKNOWN.
- ALL EXISTING DRAIN TILES DAMAGED DURING THE INVESTIGATION PROCESS SHALL BE REPAIRED TO THEIR ORIGINAL STATE IN ACCORDANCE WITH NATURAL RESOURCE CONSERVATION SERVICE STANDARDS FOR DRAIN TILE INSTALLATION AND REPAIR.
- (HUDDLESTON DRAINAGE (62A) TYPICAL STANDARD 'A')
- ALL EXISTING DRAIN TILE LOCATION DIMENSIONS HAVE BEEN SURVEYED BY AGRICULTURAL GRADE GPS SURVEY SYSTEMS AND INCLUDE SUB-METER ACCURACY. ALL LOCATIONS PERTINENT TO FINAL DESIGN SHALL BE VERIFIED BY THE PROJECT SURVEYOR.
- THIS DRAIN TILE INVESTIGATION REPORT IS INTENDED TO IDENTIFY EXISTING DRAIN TILE MAINLINE SYSTEMS ONLY INCLUDING ADDITIONAL PRIORITY ON DRAIN TILES WHICH MAY SERVICE THE UPLAND PROPERTY OF OTHERS OR WITH MUTUAL DRAINAGE STATUS.
- THIS DRAIN TILE INVESTIGATION REPORT SHALL BE FILED WITH HUDDLESTON DRAINAGE AND DRAINAGE CO. AND WILL BE REPRODUCED AND DISBURSED ONLY BY PERMISSION OF THE CONTRACT PRINCIPALS.

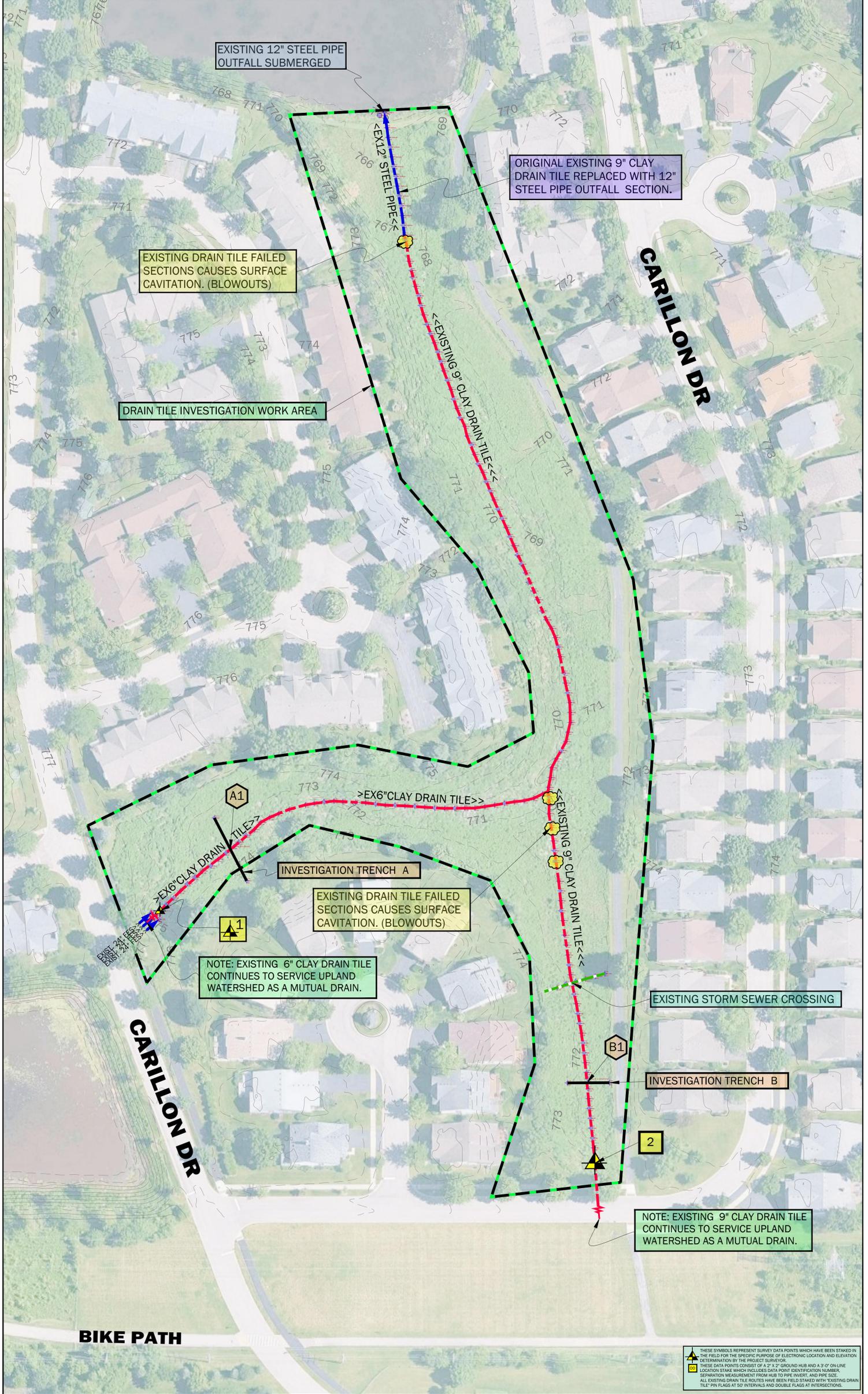
EXISTING CLAY DRAIN TILE REPAIR SECTION

TYPICAL CONSTRUCTION SECTION [A]

49th Anniversary 1976-2025

ILLINOIS FARM BUREAU MEMBER

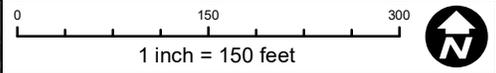
811 Know what's below. Call before you dig.



PROJECT CLIENT: Christopher B. Burke ENGINEERING, L.P. Darren Olson, P.E., CFM, D.WRE, Project Manager 9575 W. Higgins Rd., Suite-600, Rosemont, IL.	APPROVED BY AND DATE: RUDY P. DIXON, P.E. 7/14/25	PROJECT DATE: 7/14/25	DATE: 8/1/25	DESCRIPTION:
ACCOMPANING DOCUMENTS: HUDDLESTON MCBRIDE DRAINAGE CO. MAPPING and ARCHIVE SYSTEMS	FIELD FILE NO.: 10-2-14	DRAWING NO.: 10-2-14	WEATHER CONDITIONS: SUNNY / COOL - 80s	DRAWING SCALE: 1" TO 50'
DRAWN BY AND DATE: TOM HUDDLESTON 7/14/25	SHEET NO.: ONE OF ONE			

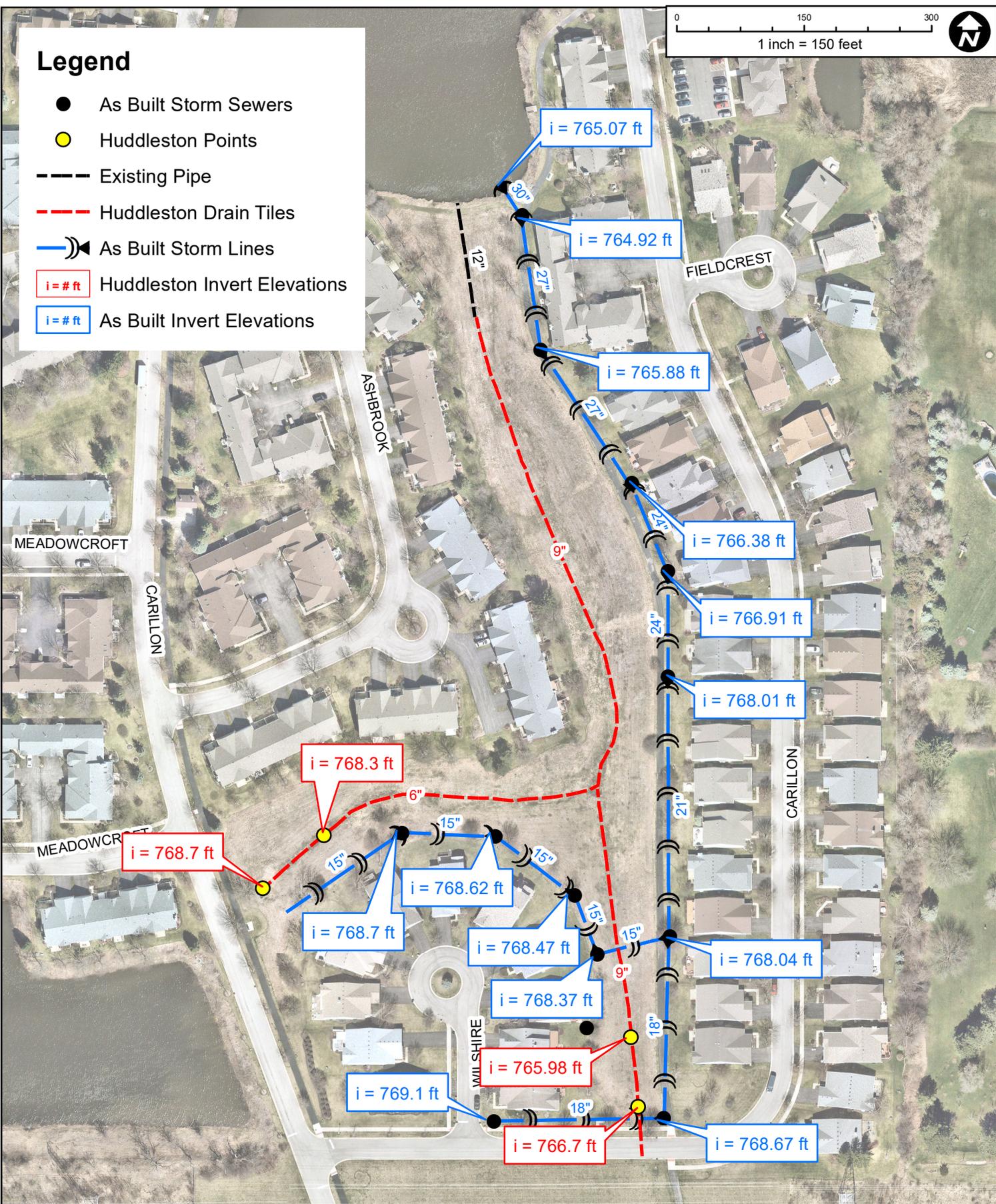
GRAYSLAKE HOA
HUDDLESTON MCBRIDE
PROFESSIONAL LAND DRAINAGE SERVICES
9504 FOWLER RD., ROCHELLE, ILLINOIS PHONE 815-562-6007

COORDINATE SYSTEM: ILLINOIS STATE PLANE EAST NAD 83



Legend

- As Built Storm Sewers
- Huddleston Points
- Existing Pipe
- - - Huddleston Drain Tiles
- As Built Storm Lines
- i = # ft Huddleston Invert Elevations
- i = # ft As Built Invert Elevations



CLIENT: **CARILLON NORTH HOMEOWNERS ASSOCIATION**

TITLE: **STORM SEWER AND DRAIN TILE INVERT MAP**

CBBEL # 25-0123
DATE: 8/13/2025

CB CHRISTOPHER B. BURKE Engineering, Ltd.
9575 W. Higgins Road, Suite 600, Rosemont, Illinois 60018 (847)823-0500

DSGN.		SCALE:	1" = 150'
DWN.	ECD	USER:	KKOPIJA
CHKD.	DTO	PLOT DATE:	8/13/2025
FILE NAME:	Elevation Comparison Map		

EXH

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