

EXISTING AGRICULTURAL DRAIN TILE INVESTIGATION PLAN

McLEAN PARCEL

PREPARED FOR DEVELOPMENT PROPERTIES, INC.

SECTION NO. 36, ST. CHARLES TWP., KANE CO., IL.

EXISTING SUBSURFACE AGRICULTURAL DRAIN TILE INVESTIGATION REPORT

McLEAN PARCEL DEVELOPMENT PROPERTIES, INC.

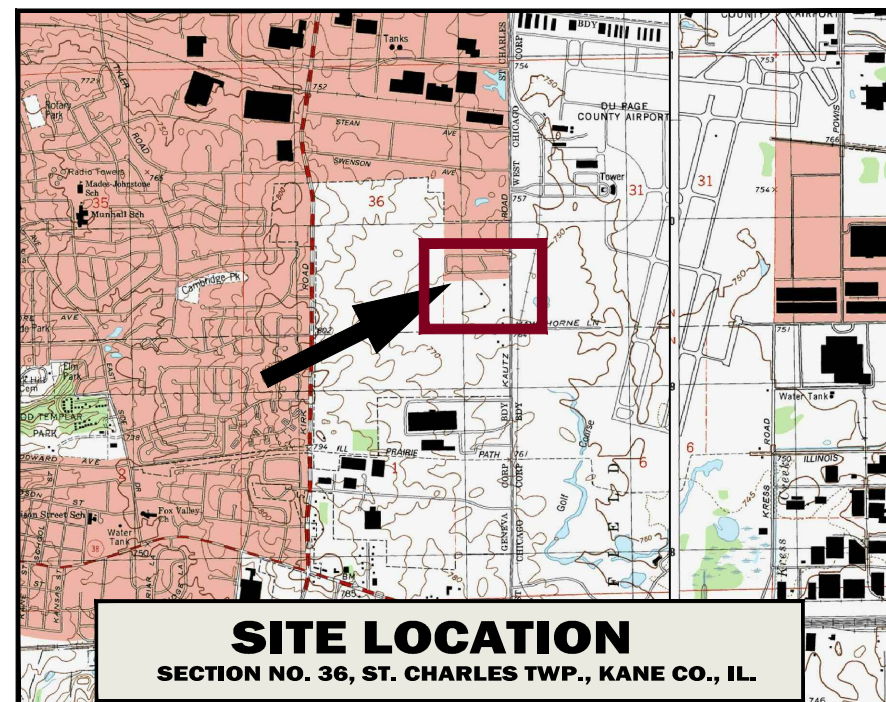
McLEAN PARCEL / DEVELOPMENT PROPERTIES, INC., FIELD FILE NO. 4-14-36, DATE: 1/15/20.
IN ACCORDANCE WITH KANE COUNTY STORM WATER ORDINANCE DRAIN TILE INVESTIGATION STANDARDS
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DESCRIPTION CHART NO. 1A: INVESTIGATION SLIT TRENCH LOCATIONS

ID NO.	SZ	TYPE / QUALITY	FLOW %	SILT %	DEPTH (GRID/IN)	FIELD NOTES
A	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
B	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
C	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
D	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
E	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
F	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
G	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
H	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
I	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
J	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED

DESCRIPTION CHART NO. 1B: SURVEY DATA POINT LOCATIONS

DATA POINT	SZ	TYPE / QUALITY	FLOW %	SILT %	DEPTH (GRID/IN)	FIELD NOTES
NOTE: NO EXISTING DRAIN TILES WERE LOCATED DURING THIS INVESTIGATION, THEREFORE NO DATA (INGRESS / EGRESS) POINTS WERE ESTABLISHED.						



SITE LOCATION
SECTION NO. 36, ST. CHARLES TWP., KANE 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 CONTIGUOUS 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 CONTIGUOUS TO OFF-SITE OUTLET SYSTEM
- EXISTING DRAIN TILE FAILURE / FLOW SURCHARGE TO SURFACE
- 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 % PERCENTAGE OF TILE DIAMETER OCCUPIED BY RESTRICTIVE SILT.
- DEPTH 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 SPRIG.
- "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.
- 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.
- 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 SURVEYED BY THE PROJECT SURVEYOR.
- THIS DRAIN TILE INVESTIGATION REPORT IS INTENDED TO IDENTIFY EXISTING DRAIN TILE MAINLINE SYSTEMS ONLY WITH 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 LAND DRAINAGE CO., AND WILL BE REPRODUCED AND DISBURSED ONLY BY PERMISSION OF THE CONTRACT PRINCIPALS.

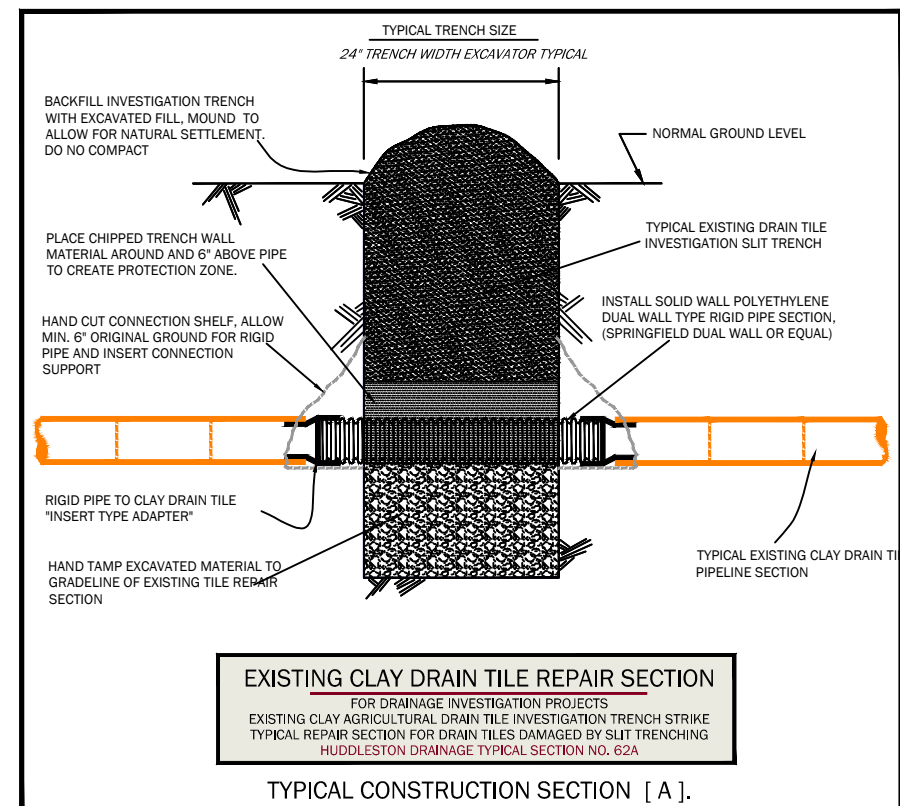
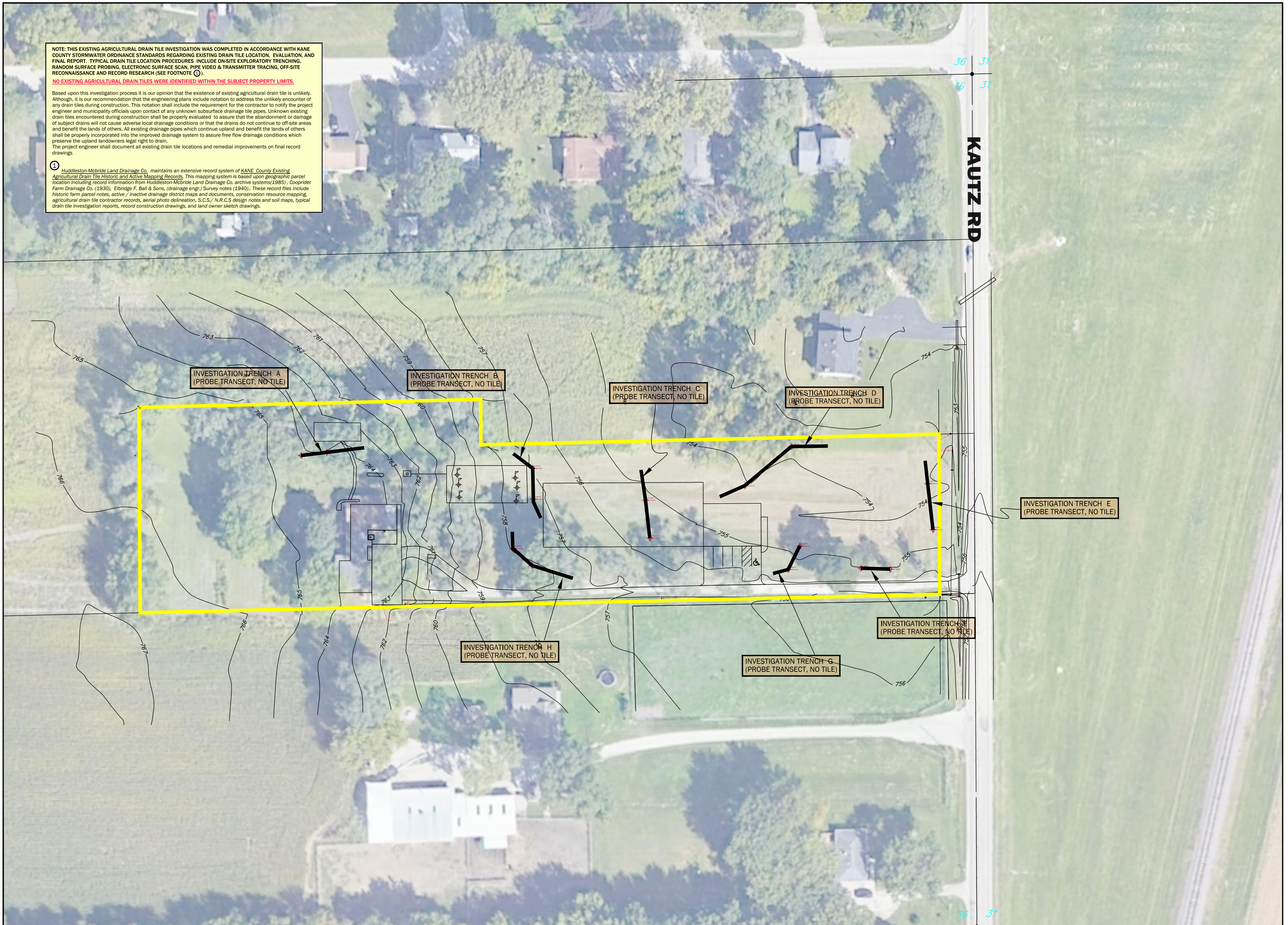
TOM HUDDLESTON, HUDDLESTON McBRIDE DRAINAGE CO.

NOTE: THIS EXISTING AGRICULTURAL DRAIN TILE INVESTIGATION WAS COMPLETED IN ACCORDANCE WITH KANE COUNTY STORMWATER ORDINANCE STANDARDS REGARDING EXISTING DRAIN TILE LOCATION, EVALUATION, AND FINAL REPORT. TYPICAL DRAIN TILE LOCATION PROCEDURES INCLUDE ON-SITE EXPLORATORY TRENCHING, RANDOM SURFACE PROBING, ELECTRONIC SURFACE SCAN, PIPE VIDEO & TRANSMITTER TRACING, OFF-SITE RECONNAISSANCE AND RECORD RESEARCH (SEE FOOTNOTE C).

NO EXISTING AGRICULTURAL DRAIN TILES WERE IDENTIFIED WITHIN THE SUBJECT PROPERTY LIMITS.

Based upon this investigation process it is our opinion that the existence of existing agricultural drain tile is unlikely. Although, it is our recommendation that the engineering plans include notation to address the unlikely encounter of any drain tiles during construction. This notation shall include the requirement for the contractor to notify the project engineer and municipality officials upon contact of any unknown subsurface drainage tile pipes. Unknown existing drain tiles encountered during construction shall be properly evaluated to assure that the abandonment or damage of subject drains will not cause adverse local drainage conditions so that the drains do not continue to off-site areas and benefit the lands of others. All existing drainage pipes which continue upland and benefit the lands of others shall be properly incorporated into the improved drainage system to assure free flow drainage conditions which preserve the upland landowners legal right to drain. The project engineer shall document all existing drain tile locations and remedial improvements on final record drawings.

Huddleston McBride Land Drainage Co., maintains an extensive record system of KANE County Existing Agricultural Drain Tile Historic and Active Mapping Records. This mapping system is based upon geographic parcel location including record information from Huddleston McBride Land Drainage Co. archive systems (DMS), Cooper Farm Drainage Co. (1930), Elbridge F. Ball & Sons, (drainage eng.) Survey notes (1940). These record files include historic farm parcel notes, active / inactive drainage district maps and documents, conservation resource mapping, agricultural drain tile contractor records, aerial photo delineation, S.C.S. / N.R.C.S. design notes and soil maps, typical drain tile investigation reports, record construction drawings, and land owner sketch drawings.



THESE SYMBOLS REPRESENT SURVEY DATA POINTS WHICH HAVE BEEN STAKED IN THE FIELD FOR THE SPECIFIC PURPOSE OF ELECTRONIC LOCATION AND ELEVATION DETERMINATION BY THE PROJECT SURVEYOR.

THESE DATA POINTS CONSIST OF A 2" x 2" GROUND HUB AND A 3/8" OD ON-LINE LOCATION STAKE WHICH INCLUDES DATA POINT IDENTIFICATION NUMBER, SEPARATION MEASUREMENT FROM HUB TO PIPE INVERT, AND PIPE SIZE.

ALL EXISTING DRAIN TILE ROUTES HAVE BEEN FIELD MARKED WITH "EXISTING DRAIN TILE" PIN FLAGS AT 50' INTERVALS AND DOUBLE FLAGS AT INTERSECTIONS.

PROJECT CLIENT: **DEVELOPMENT PROPERTIES, INC.**

JOHN THORNHILL, PROJECT MANAGER
44 WHITE OAK CIRCLE, ST. CHARLES, IL., 60174

APPROVED BY AND DATE: TOM HUDDLESTON 1/15/20

ACKNOWLEDGMENTS: HUDDLESTON DRAINAGE MAP and ARCHIVE SYSTEMS

DRAWN BY AND DATE: TOM HUDDLESTON 1/15/20

PROJECT DATE: 1/15/20

FIELD FILE NO.: 4-14-36

DRAWING NO.: 4-14-36

REVISIONS:

NO.	DATE	BY	DESCRIPTION

WEATHER CONDITIONS: SUNNY/ WARM - 20s

DRAWING SCALE: 1" TO 50'

SHEET NO. ONE OF ONE

44th Anniversary 1976-2020

ILLINOIS FARM BUREAU MEMBER

811 Know what's below. Call before you dig. A-150074 800 NUMBER

McLEAN PARCEL

HUDDLESTON McBRIDE
PROFESSIONAL LAND DRAINAGE SERVICES

9504 FOWLER RD., ROCHELLE, ILLINOIS PHONE 815-562-6007

COORDINATE SYSTEM: ILLINOIS STATE PLANE EAST NAD 83