

# EXISTING AGRICULTURAL DRAIN TILE INVESTIGATION PLAN

# YORKVILLE 50TH ROAD

PREPARED FOR TNG27, LLC

## Section no. 1, Yorkville, Racine Co., WI

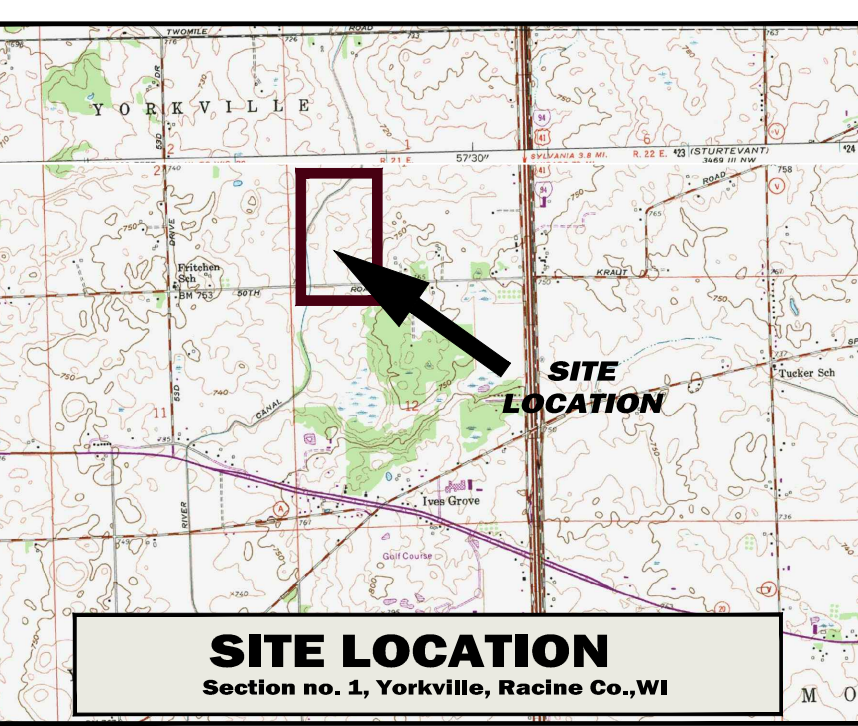
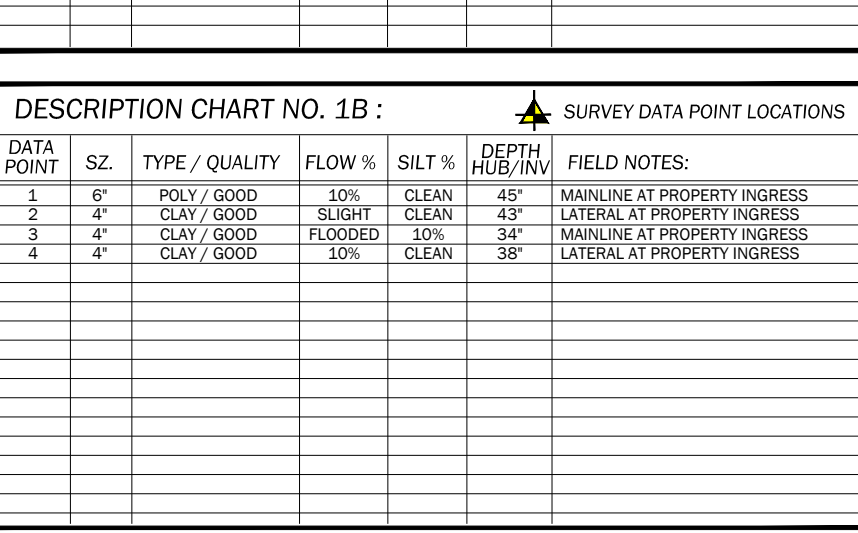
### EXISTING SUBSURFACE AGRICULTURAL DRAIN TILE INVESTIGATION REPORT

### YORKVILLE 50TH ROAD TNG27, LLC

YORKVILLE 50TH ROAD / TNG27, LLC, FIELD FILE NO. 30-9-1, DATE: 12/17/20.  
IN ACCORDANCE WITH VILLAGE OF YORKVILLE TYPICAL DRAIN TILE INVESTIGATION STANDARDS  
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DESCRIPTION CHART NO. 1A:					
ID NO.	SIZE	TYPE / QUALITY	FLOW %	SILT %	DEPTH (IN)
A	4"	CLAY / GOOD	SLIGHT	CLEAN	38"
B	4"	CLAY / GOOD	SLIGHT	CLEAN	38"
C	6"	POLY / GOOD	30%	CLEAN	33"
D	4"	CLAY / GOOD	SLIGHT	CLEAN	33"
E	4"	CLAY / GOOD	SLIGHT	CLEAN	33"
F	4"	CLAY / GOOD	SLIGHT	CLEAN	33"
G	4"	CLAY / GOOD	SLIGHT	CLEAN	33"
H	4"	CLAY / GOOD	SLIGHT	CLEAN	33"
I	4"	CLAY / GOOD	SLIGHT	CLEAN	33"
J	4"	CLAY / GOOD	SLIGHT	CLEAN	33"
K	4"	CLAY / GOOD	SLIGHT	CLEAN	33"
L	4"	CLAY / GOOD	SLIGHT	CLEAN	33"
M	4"	CLAY / GOOD	SLIGHT	CLEAN	33"
N	4"	CLAY / GOOD	SLIGHT	CLEAN	33"
O	4"	CLAY / GOOD	SLIGHT	CLEAN	33"
P	4"	CLAY / GOOD	SLIGHT	CLEAN	33"
Q	4"	CLAY / GOOD	SLIGHT	CLEAN	33"

DESCRIPTION CHART NO. 1B:					
DATA POINT	SIZE	TYPE / QUALITY	FLOW %	SILT %	DEPTH (IN)
1	6"	CLAY / GOOD	30%	CLEAN	45"
2	4"	CLAY / GOOD	SLIGHT	CLEAN	43"
3	4"	CLAY / GOOD	SLIGHT	CLEAN	38"
4	4"	CLAY / GOOD	SLIGHT	CLEAN	38"



**MAP LEGEND:**

- EXISTING DRAIN TILE FLOW DIRECTION (dashed line with arrows)
- EX. POLYETHYLENE MAINLINE OR SYSTEM PART (dashed line)
- EX. CLAY DRAIN TILE MAINLINE OR SYSTEM PART (dotted line)
- EX. CONCRETE DRAIN TILE MAINLINE OR SYSTEM PART (dashed line)
- EXISTING DRAIN TILE CONTINUES TO UPLAND WATERSHED (dashed line with arrows)
- EXISTING DRAIN TILE OUTLETS TO SURFACE (dashed line with arrows)
- EXIST. DRAIN TILE (1) INSPECTION STRUCTURE / (2) CATCH BASIN (circle with 'I' or 'C')
- EXIST. DRAIN TILE (1) LOCATED END / (2) ASSUMED END (circle with 'I' or 'A')
- EXISTING DRAIN TILE CONTINUES TO OFF-SITE OUTLET SYSTEM (dashed line with arrows)
- EXISTING DRAIN TILE FAILURE / FLOW SURCHARGE TO SURFACE (dashed line with arrows)
- EXISTING DRAIN TILE MAPPED BY SPECULATION AND ASSUMPTION (dotted line)
- EXISTING DRAIN TILE ABANDONED (NOT FUNCTIONAL) (dashed line with 'X' marks)
- EXISTING DRAIN TILE "BLOWOUT" OR FAILURE (dashed line with 'X' marks)
- HAND PROBE OR ELECTRONIC SCAN FOR DRAIN TILE LOCATION (circle with 'H' or 'E')
- INVESTIGATION SLIT TRENCH FOR INVESTIGATION (circle with 'I')
- SPECIFIC PIT EXCAVATION FOR INVESTIGATION (circle with 'P')
- SURVEY DATA POINTS (triangle with number)
- REPORT IDENTIFICATION NUMBER (circle with number)

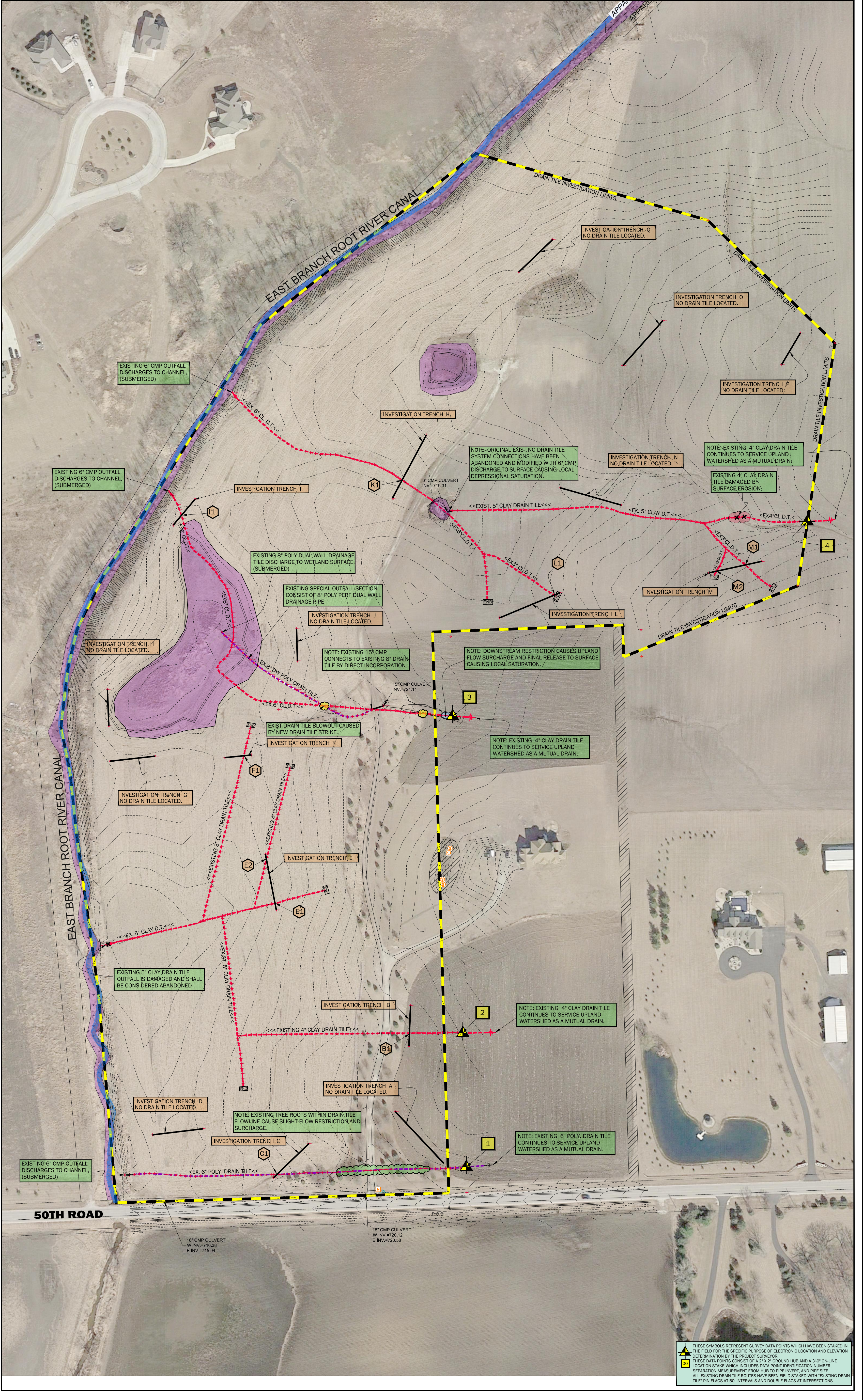
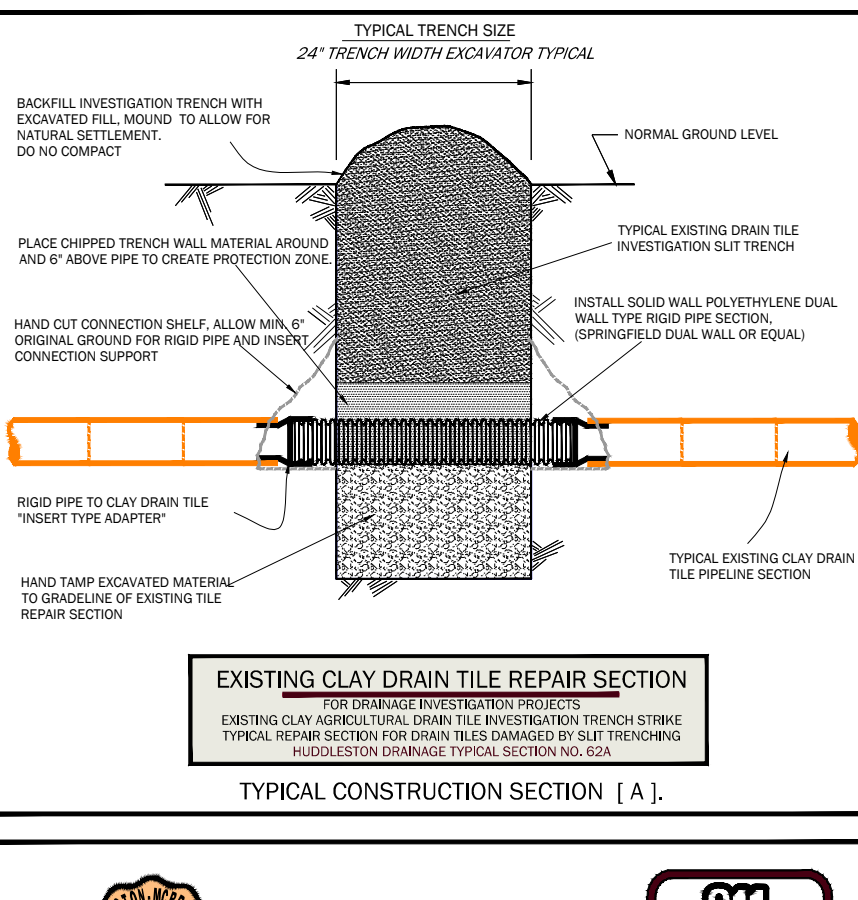
**REPORT LEGEND:**

- ID NO. POINT OF EXCAVATION FOR SPECIFIC DRAIN TILE INVESTIGATION.
- SIZE (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.
- RESTRICTED OR BACKED UP FLOW, SURCHARGE CONDITION (circle with 'R' or 'B').
- PERCENTAGE OF TILE DIAMETER OCCUPIED BY RESTRICTIVE SILT (circle with 'S').
- ABANDONED, FILLED WITH SILT BLOCKAGE, NO FLOW POTENTIAL MEASUREMENT FROM EXISTING GROUND LEVEL TO PIPE INVERT. (circle with 'A').

**(GENERAL NOTES)**

- MAINLINE TILE TRUNK LINE OR MUTUAL DRAIN, COLLECTOR OF SUB-SYSTEMS.
- SUB-MAIN TILE SECONDARY TRUNK LINE OR RANDOM SYSTEM COLLECTOR.
- 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 (SDA) TYPICAL STANDARD 7A)
  - 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 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.



<b>PROJECT CLIENT:</b> <b>TNG27, LLC</b> Nancy Washburn, Project Manager 8338 Corporate Dr., Suite 300, Mont Pleasant, WI., 53406	<b>APPROVED BY AND DATE:</b> TOM HUDDLESTON 12/17/20	<b>PROJECT DATE:</b> 12/17/20	<b>REVISIONS:</b>	<b>DATE:</b>	<b>BY:</b>	<b>DESCRIPTION:</b>
<b>ACKNOWLEDGMENTS:</b> HUDDLESTON DRAINAGE MAP AND ARCHIVE SYSTEMS	<b>DRAWN BY AND DATE:</b> TOM HUDDLESTON 12/17/20	<b>FIELD FILE NO.:</b> 30-9-1	<b>DRAWING NO.:</b> 30-9-1_X3	<b>WEATHER CONDITIONS:</b> SUNNY/ WARM - 30s	<b>DRAWING SCALE:</b> 1" TO 100'	<b>SHEET NO.:</b> ONE OF ONE
<b>YORKVILLE 50TH ROAD</b> <b>HUDDLESTON MCBRIDE</b> PROFESSIONAL LAND DRAINAGE SERVICES 9504 FOWLER RD., ROCHELLE, ILLINOIS PHONE 815-662-6007						