

# AGRICULTURAL EXISTING DRAIN TILE INVESTIGATION PLAN

## I.D.O.T. BUCKLEY ROAD PARCEL

PREPARED FOR ILLINOIS STATE GEOLOGICAL SURVEY

SECTION NO. 7, SHIELDS TWP., LAKE CO., IL.

### EXISTING SUBSURFACE AGRICULTURAL DRAIN TILE INVESTIGATION REPORT

### ILLINOIS DEPT. OF TRANSPORTATION BUCKLEY ROAD PARCEL

ILLINOIS STATE GEOLOGICAL SURVEY

I.D.O.T. BUCKLEY ROAD PARCEL / I.S.G.S. FIELD FILE NO. 10-12-7, DATE: 12/16/08  
IN ACCORDANCE WITH LAKE COUNTY STORM WATER COMMISSION DRAIN TILE INVESTIGATION STANDARDS  
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DESCRIPTION CHART NO. 1A:

ID NO.	SZ.	TYPE / QUALITY	FLOW %	SILT %	DEPTH (FT)	FIELD NOTES
A1	3"	CLAY / GOOD	FLOODED	CLEAN	37"	RESTRICTED FLOW AND SURCHARGED
B	4"	CLAY / GOOD	FLOODED	CLEAN	33"	RESTRICTED FLOW AND SURCHARGED
C1	4"	CLAY / GOOD	FLOODED	20%	33"	RESTRICTED FLOW AND SURCHARGED
C2	4"	CLAY / GOOD	FLOODED	CLEAN	33"	RESTRICTED FLOW AND SURCHARGED
D	4"	CLAY / GOOD	FLOODED	CLEAN	37"	RESTRICTED FLOW AND SURCHARGED
E1	3"	CLAY / GOOD	FLOODED	CLEAN	30"	RESTRICTED FLOW AND SURCHARGED
F1	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
G	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
H	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
I	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
J	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
K	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
L	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
M	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
N	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
O	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
P	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
Q	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
R	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
S	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
T	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
U	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
V	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
W	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
X	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
Y	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
Z	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
1A	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
1B	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
1C	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
1D	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
1E	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
1F	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
1G	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
1H	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
1I	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
1J	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
1K	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
1L	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
1M	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
1N	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
1O	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
1P	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
1Q	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
1R	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
1S	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
1T	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
1U	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
1V	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
1W	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
1X	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
1Y	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
1Z	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
2A	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
2B	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
2C	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
2D	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
2E	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
2F	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
2G	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
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2J	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
2K	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
2L	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
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2O	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
2P	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
2Q	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
2R	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
2S	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED
2T	4"	CLAY / GOOD	FLOODED	CLEAN	74"	RESTRICTED FLOW AND SURCHARGED



**MAP LEGEND:**

- EXISTING DRAIN TILE FLOW DIRECTION
- EX. POLYETHYLENE MAINLINE OR SYSTEM PART
- EX. CLAY DRAIN TILE MAINLINE OR SYSTEM PART
- EXISTING DRAIN TILE CONTINUES TO UP AND WATERSHED
- EXISTING DRAIN TILE OUTLETS TO SURFACE
- EXIST. DRAIN TILE (1) INSPECTION STRUCTURE / (2) CATCH BASIN
- EXIST. DRAIN TILE (3) LOCATED END / (3) ASSUMED END
- EXISTING DRAIN TILE CONTINUES TO OFF-SITE OUTLET SYSTEM
- EXISTING DRAIN TILE FAILURE / FLOW SURCHARGE TO SURFACE
- EXISTING DRAIN TILE MARKED 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:**

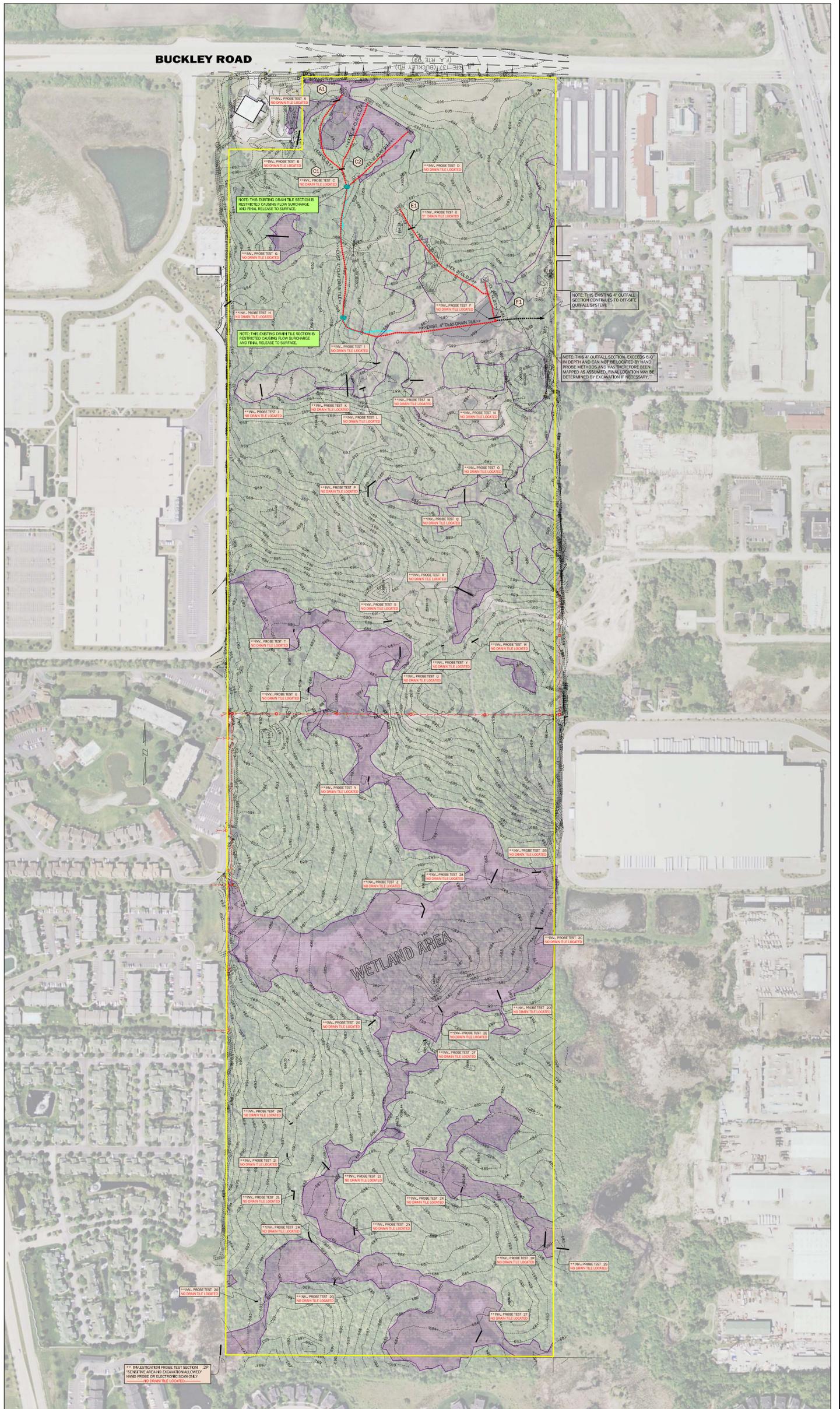
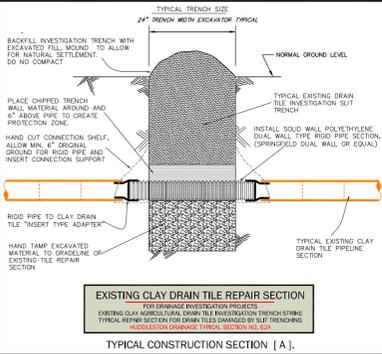
- ID NO. POINT OF EXCAVATION FOR SPECIFIC DRAIN TILE INVESTIGATION
- SZ. (SIZE) DRAIN TILE INTERNAL DIAMETER IN INCHES
- MATERIAL / QUALITY TYPE OF TILE MATERIALS, PIPE QUALITY - GOOD, FAIR & POOR
- FLOW % PERCENTAGE OF TILE DIAMETER OCCUPIED BY ACTIVE FLOW
- (R) RESTRICTED OR BACKED UP FLOW, SURCHARGED CONDITION
- SILT % PERCENTAGE OF TILE DIAMETER OCCUPIED BY RESTRICTIVE SILT
- (A) ABANDONED, FILLED WITH SILT / BLOCKAGE, NO FLOW POTENTIAL
- DEPTH 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 STAKES AT 10' INTERVALS, IN SOME OCCASIONS CERTAIN EXISTING LOCAL DRAIN TILE SECTIONS MAY BE SPECULATED AND CONSIDERED AS AN ASSUMED ROUTE.
  - 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 SCALED ON THIS PLAN ACCORDING TO AERIAL PHOTO SIGNATURE AND TOPOGRAPHICAL CONTOURS, AND THEREFORE SHOULD BE VERIFIED BY THE PROJECT SURVEYOR PRIOR TO FINAL DESIGN.
  - 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 LAND 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.



PROJECT CLIENT:  
**ILLINOIS STATE GEOLOGICAL SURVEY**  
JAMES MINER, PROJECT MANAGER  
136 NATURAL RESOURCES BLDG, 615 E. PEABODY, DR.,  
CHAMPAIGN, IL., 61820

APPROVED BY AND DATE:  
TOM HUDDLESTON 12/16/2008

ACKNOWLEDGMENTS:  
HUDDLESTON DRAINAGE MAPPING SYSTEM

DRAWN BY AND DATE:  
TOM HUDDLESTON 12/16/2008

PROJECT DATE:  
12/16/08

FIELD FILE NO.:  
10-12-7

WEATHER CONDITIONS:  
SUNNY / WARM - 20s

DRAWING SCALE:  
1" TO 200'

SHEET NO.:  
ONE OF ONE

**I.D.O.T. BUCKLEY ROAD PARCEL EXISTING DRAIN TILE RECORD DRAWING**

**HUDDLESTON MCBRIDE**  
LAND DRAINAGE SERVICES  
ROCHELLE, IL. 61524-8007 ST. CHARLES, IL. 63303-1375