

EXISTING DRAIN TILE INVESTIGATION, MODIFICATION AND SYSTEM ABANDONMENT

SPRING CREEK SOUTH RESTORATION AREA

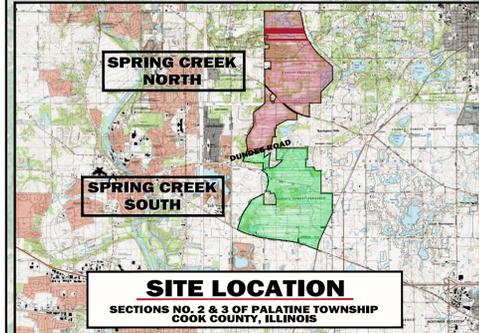
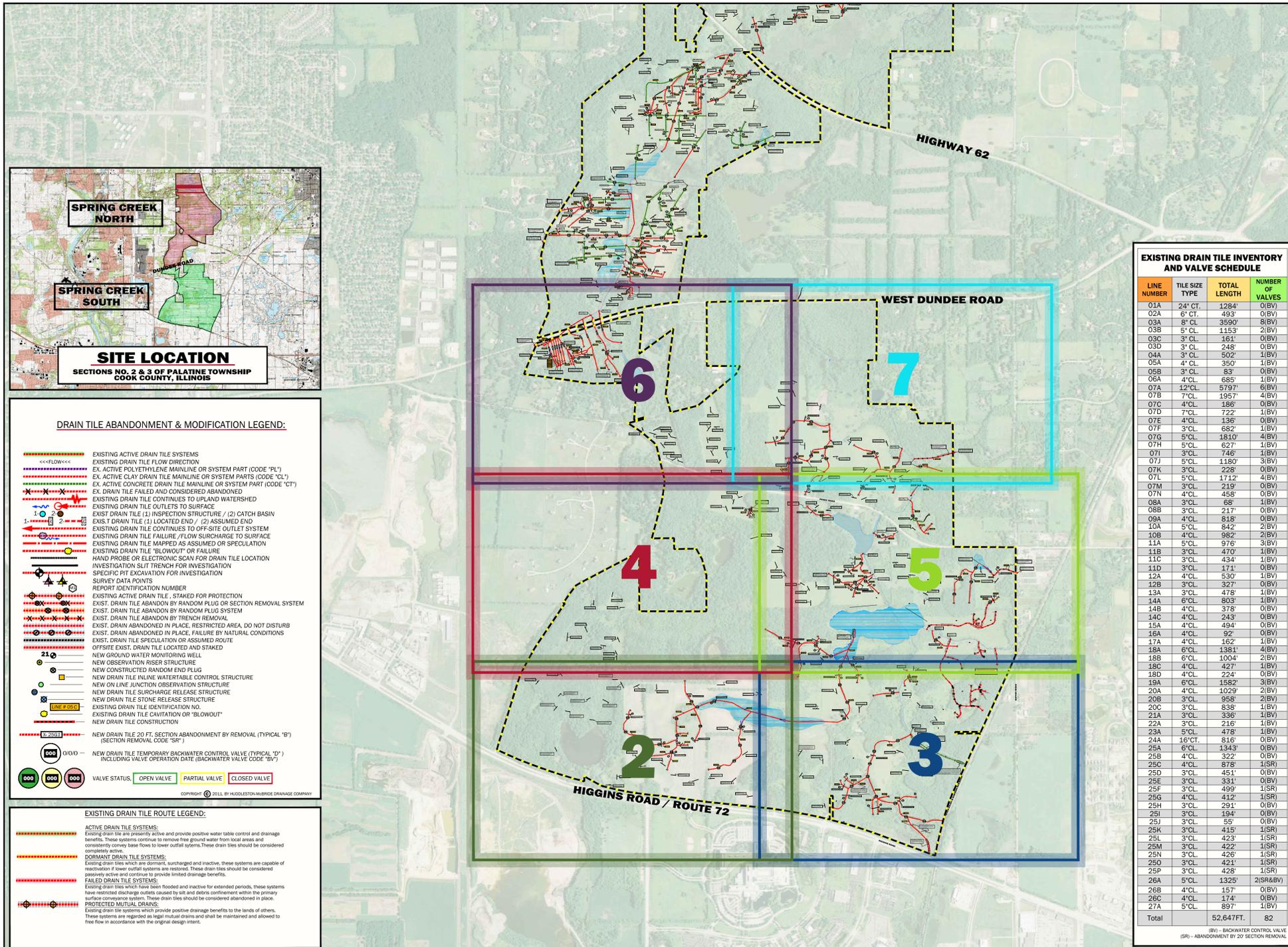


DEPARTMENT OF ARMY
U.S. CORPS OF ENGINEERS



FOREST PRESERVE DISTRICT
of Cook County, Illinois

PALATINE TOWNSHIP, COOK COUNTY, ILLINOIS
SHEET NO. 1 OF 7

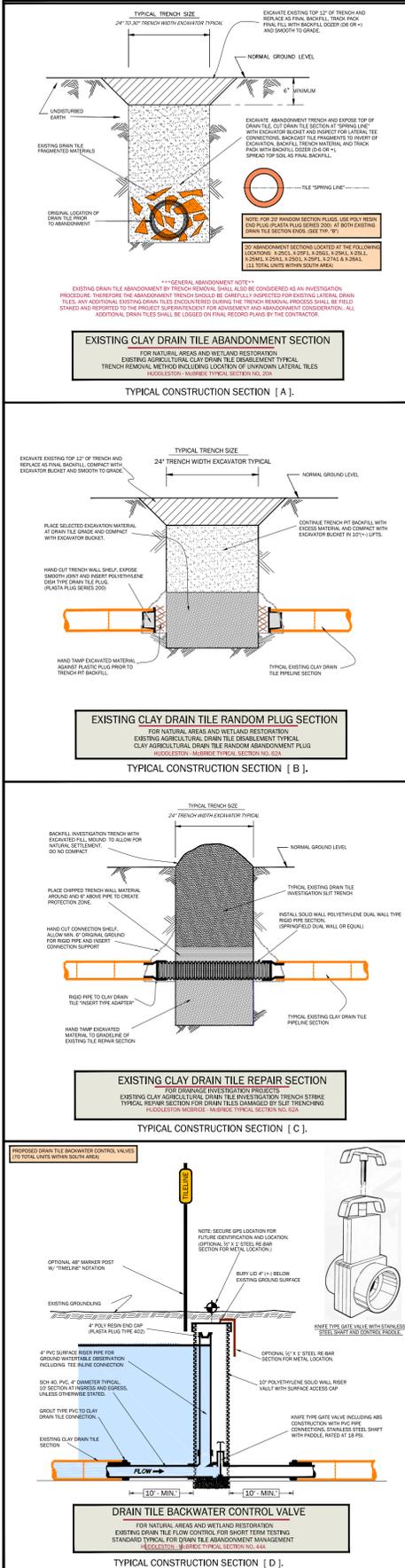


DRAIN TILE ABANDONMENT & MODIFICATION LEGEND:

- EXISTING ACTIVE DRAIN TILE SYSTEMS
- EXISTING DRAIN TILE FLOW DIRECTION
- EX. ACTIVE POLYETHYLENE MAINLINE OR SYSTEM PART (CODE "PL")
- EX. ACTIVE CLAY DRAIN TILE MAINLINE OR SYSTEM PARTS (CODE "CL")
- EX. ACTIVE CONCRETE DRAIN TILE MAINLINE OR SYSTEM PART (CODE "CT")
- EX. DRAIN TILE FAILED AND CONSIDERED ABANDONED
- 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 MAPPED AS ASSUMED OR SPECULATION
- 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
- EXISTING ACTIVE DRAIN TILE - STAKED FOR PROTECTION
- EXIST. DRAIN TILE ABANDON BY RANDOM PLUG OR SECTION REMOVAL SYSTEM
- EXIST. DRAIN TILE ABANDON BY TRENCH REMOVAL
- EXIST. DRAIN ABANDONED IN PLACE, RESTRICTED AREA, DO NOT DISTURB
- EXIST. DRAIN ABANDONED IN PLACE, FAILURE BY NATURAL CONDITIONS
- EXIST. DRAIN TILE SPECULATION OR ASSUMED ROUTE
- OFFSITE EXIST. DRAIN TILE LOCATED AND STAKED
- NEW GROUND WATER MONITORING WELL
- NEW OBSERVATION RISER STRUCTURE
- NEW CONSTRUCTED RANDOM END PLUG
- NEW DRAIN TILE IN-LINE WATERBAY CONTROL STRUCTURE
- NEW ON LINE JUNCTION OBSERVATION STRUCTURE
- NEW DRAIN TILE SURCHARGE RELEASE STRUCTURE
- NEW DRAIN TILE STONE RELEASE STRUCTURE
- EXISTING DRAIN TILE IDENTIFICATION NO.
- EXISTING DRAIN TILE CAVITATION OR "BLOWOUT"
- NEW DRAIN TILE CONSTRUCTION
- NEW DRAIN TILE 30 FT. SECTION ABANDONMENT BY REMOVAL (TYPICAL "B") (SECTION REMOVAL CODE "SR")
- NEW DRAIN TILE TEMPORARY BACKWATER CONTROL VALVE (TYPICAL "D") INCLUDING VALVE OPERATION DATE (BACKWATER VALVE CODE "BV")
- VALVE STATUS: OPEN VALVE, PARTIAL VALVE, CLOSED VALVE

EXISTING DRAIN TILE INVENTORY AND VALVE SCHEDULE

LINE NUMBER	TILE SIZE	TOTAL LENGTH	NUMBER OF VALVES
01A	24" CT	1284'	0(BV)
02A	6" CL	493'	0(BV)
03A	8" CL	3590'	8(BV)
03B	5" CL	1153'	2(BV)
03C	3" CL	161'	0(BV)
03D	3" CL	248'	0(BV)
04A	3" CL	502'	1(BV)
05A	4" CL	350'	1(BV)
05B	3" CL	83'	0(BV)
06A	4" CL	685'	1(BV)
07A	12" CL	5797'	6(BV)
07B	7" CL	1957'	4(BV)
07C	4" CL	186'	0(BV)
07D	7" CL	722'	1(BV)
07E	4" CL	136'	0(BV)
07F	3" CL	682'	1(BV)
07G	5" CL	1810'	4(BV)
07H	5" CL	627'	1(BV)
07I	3" CL	746'	1(BV)
07J	5" CL	1180'	3(BV)
07K	3" CL	228'	0(BV)
07L	5" CL	1712'	4(BV)
07M	3" CL	219'	0(BV)
07N	4" CL	458'	0(BV)
08A	3" CL	68'	1(BV)
08B	3" CL	217'	0(BV)
09A	4" CL	818'	0(BV)
10A	5" CL	842'	2(BV)
10B	4" CL	982'	2(BV)
11A	5" CL	976'	3(BV)
11B	3" CL	470'	1(BV)
11C	3" CL	434'	1(BV)
11D	3" CL	171'	0(BV)
12A	4" CL	530'	1(BV)
12B	3" CL	327'	0(BV)
13A	3" CL	478'	1(BV)
14A	6" CL	803'	1(BV)
14B	4" CL	378'	0(BV)
14C	4" CL	243'	0(BV)
15A	4" CL	494'	0(BV)
16A	4" CL	92'	0(BV)
17A	4" CL	162'	1(BV)
18A	6" CL	1361'	4(BV)
18B	6" CL	1004'	2(BV)
18C	4" CL	427'	1(BV)
18D	4" CL	224'	0(BV)
19A	6" CL	1582'	3(BV)
20A	4" CL	1029'	2(BV)
20B	3" CL	958'	2(BV)
20C	3" CL	838'	1(BV)
21A	3" CL	336'	1(BV)
22A	3" CL	216'	1(BV)
23A	3" CL	478'	1(SR)
24A	16" CT	816'	0(BV)
25A	6" CL	1343'	0(BV)
25B	4" CL	322'	0(BV)
25C	4" CL	878'	1(SR)
25D	3" CL	451'	0(BV)
25E	3" CL	331'	0(BV)
25F	3" CL	499'	1(SR)
25G	4" CL	412'	1(SR)
25H	3" CL	291'	0(BV)
25I	3" CL	194'	0(BV)
25J	3" CL	55'	0(BV)
25K	3" CL	415'	1(SR)
25L	3" CL	423'	1(SR)
25M	3" CL	422'	1(SR)
25N	3" CL	426'	1(SR)
25O	3" CL	421'	1(SR)
25P	3" CL	428'	1(SR)
26A	5" CL	1325'	2(SR&BV)
26B	4" CL	157'	0(BV)
26C	4" CL	174'	0(BV)
27A	5" CL	897'	1(BV)
Total		52,647FT.	82

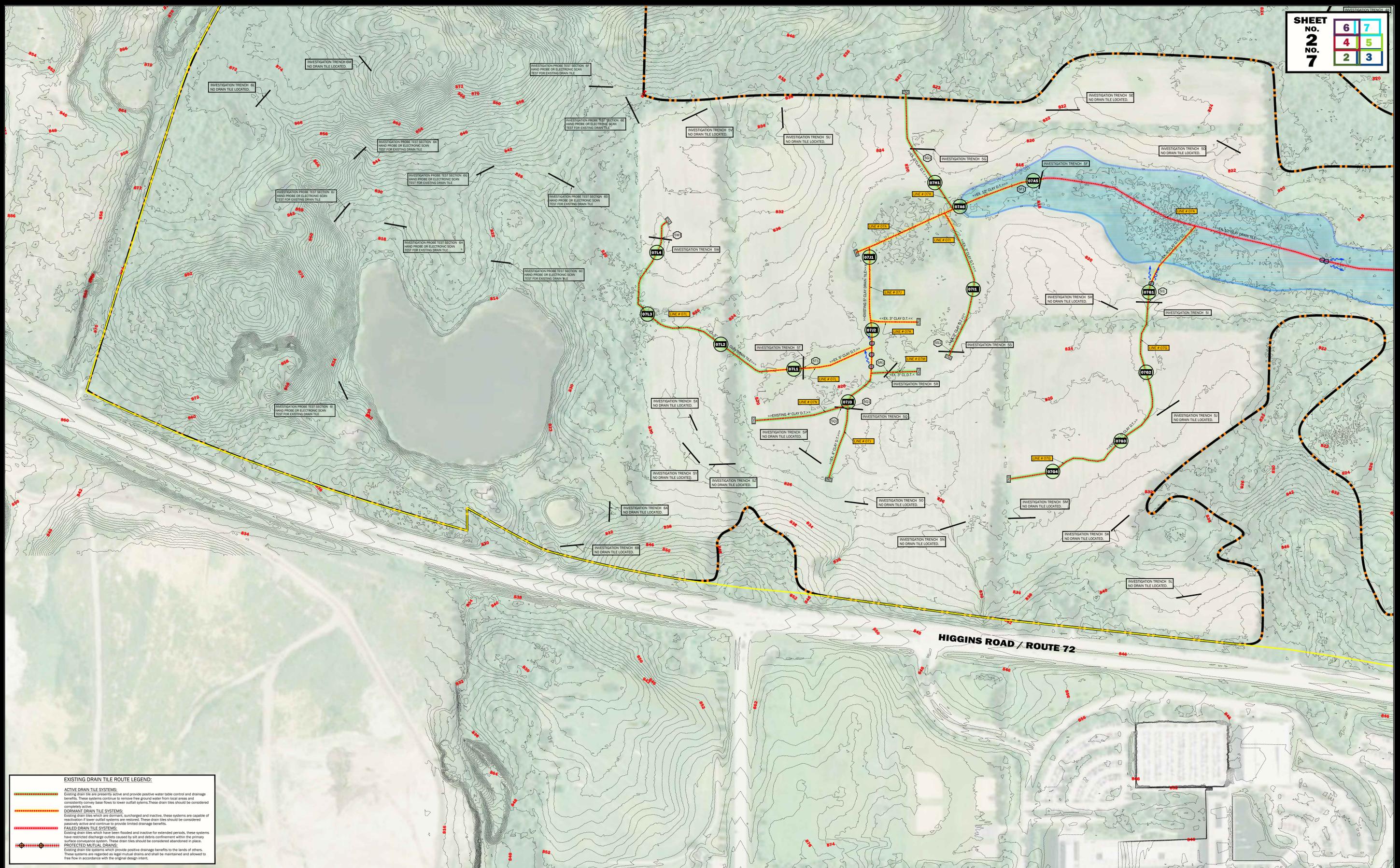


EXISTING SUBSURFACE AGRICULTURAL DRAIN TILE INVESTIGATION CONDITION REPORT

FROM HUD FIELD FILE NO. 11-00-00SC. 1/12/2011

ID NO.	S.	TYPE / QUALITY	FLOW %	SILT %	DEPTH (FT.)	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
K	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
L	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
M	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
N	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
O	---	NO DRAIN TILE	---	---	---	NO DRAIN TILE LOCATED
P1	4"	CLAY / GOOD	10%	CLEAN	27'	ACTIVE FLOW RATE AND CAPACITY
P2	---	---	---	---	---	---
P3	---	---	---	---	---	---
P4	---	---	---	---	---	---
P5	---	---	---	---	---	---
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P98	---	---	---	---	---	---
P99	---	---	---	---	---	---
P100	---	---	---	---	---	---

©HUDDMAC ACTIVE DRAWINGS\SPRINGBROOK FINAL\SPRINGBROOK FINAL PACKAGE\SPRINGBROOK FINAL CAD\11-00-00SpringCreekFinalR1.dwg, SOUTH, 6/27/2011 11:04:14 AM, Tom, DWG To PDF.pc3, ARCH full bleed D (36.00 x 24.00 Inches), 1:200



EXISTING DRAIN TILE ROUTE LEGEND:

- ACTIVE DRAIN TILE SYSTEMS:** Existing drain tile are presently active and provide positive water table control and drainage benefits. These systems continue to remove free ground water from local areas and consistently convey base flows to lower outfall systems. These drain tiles should be considered completely active.
- DORMANT DRAIN TILE SYSTEMS:** Existing drain tiles which are dormant, surcharged and inactive. These systems are capable of reactivation if lower outfall systems are restored. These drain tiles should be considered passively active and continue to provide limited drainage benefits.
- FAILED DRAIN TILE SYSTEMS:** Existing drain tiles which have been flooded and inactive for extended periods. These systems have restricted discharge outlets caused by silt and debris confinement within the primary surface conveyance system. These drain tiles should be considered abandoned in place.
- PROTECTED MUTUAL DRAINS:** Existing drain tile systems which provide positive drainage benefits to the lands of others. These systems are registered as legal mutual drains and shall be maintained and allowed to free flow in accordance with the original design intent.

DEPARTMENT OF ARMY U.S. CORPS OF ENGINEERS **FOREST PRESERVE DISTRICT of Cook County, Illinois**

US ARMY CORPS OF ENGINEERS, Environmental Planning Section
 111 N. Canal Street, Suite 600, Chicago, IL., 60606

APPROVED BY AND DATE: TOM HUDDLESTON 4/9/2011	PROJECT DATE: 4/9/2011
ACKNOWLEDGMENTS: HUDDLESTON MCBRIDE DRAINAGE MAPPING SYSTEM	FIELD FILE NO.:
DRAWN BY AND DATE: TOM HUDDLESTON 4/9/2011	11-00-00ScsouthFINAL
	11-00-00ScsouthFINAL_r1

DATE: 6/27/2011	BY: TLH	DESCRIPTION: REVISIONS AND REVIEW BY TERA TECH
REVISIONS:		
WEATHER CONDITIONS: SPRING 2011		
DRAWING SCALE: 1" TO 200'	SHEET NO.:	FIELD CREW:
	TWO OF SEVEN	F. McBRIDE

35th Anniversary

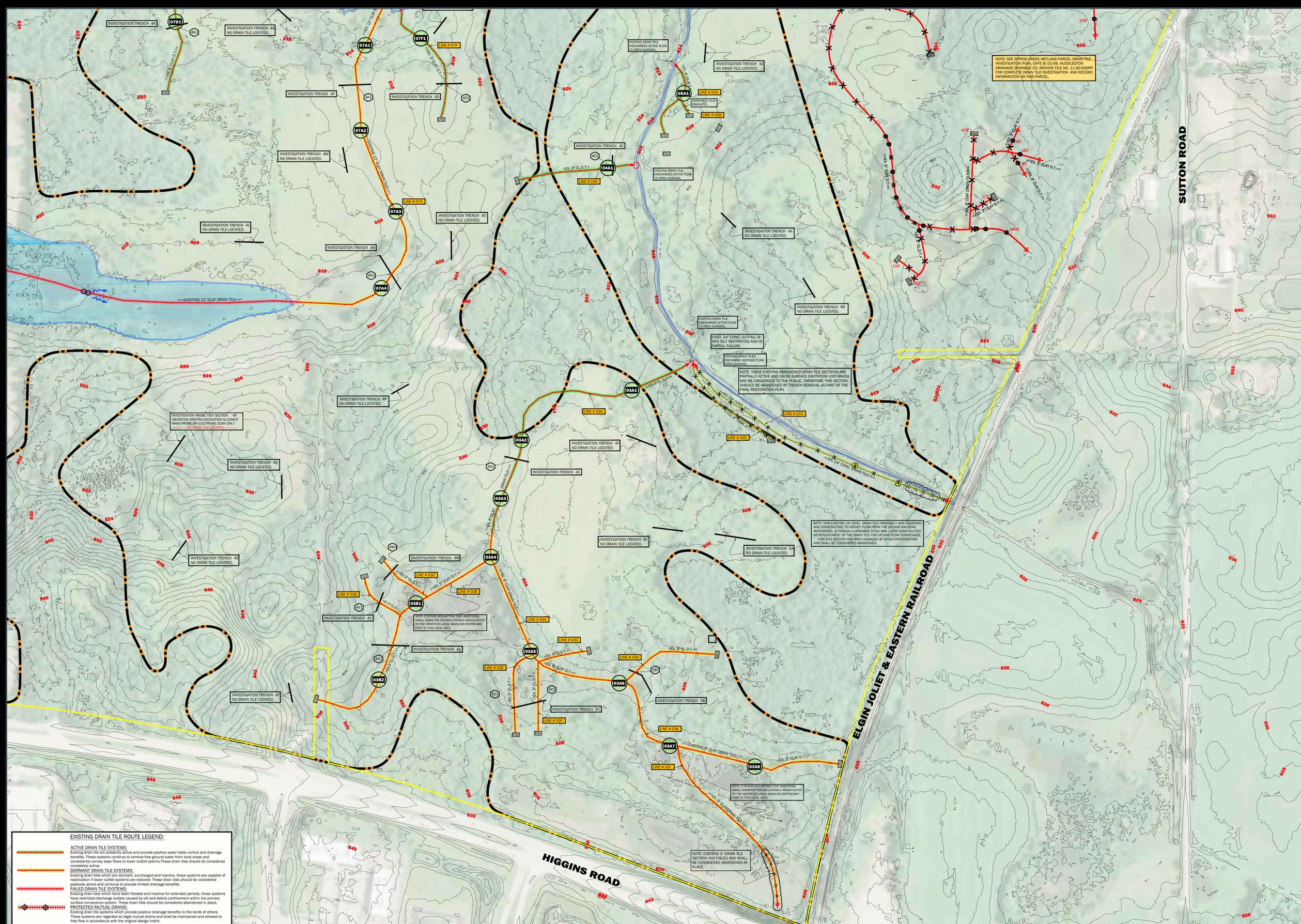
ILLINOIS FARM BUREAU MEMBER

SPRING CREEK SOUTH RESTORATION AREA

HUDDLESTON McBRIDE
 PROFESSIONAL LAND DRAINAGE SERVICES

9504 FOWLER RD., ROCHELLE, ILLINOIS PHONE 615-562-8007

NORTH



NOTE: SEE SPRING CREEK WETLAND PARCEL DRAIN TILE INVESTIGATION DATA BY ELGIN-HIGGINS RESTORATION DRAINAGE CO. ARCHIVE FILE NO. 11-00-00SPR FOR COMPLETE DRAIN TILE INVESTIGATION AND RECORD INFORMATION ON THIS PARCEL.

NOTE: THESE EXISTING ABANDONED DRAIN TILE SECTIONS ARE PARTIALLY ACTIVE AND CAUSE SURFACE CAVITATION WHICH MAY BE DANGEROUS TO THE PUBLIC. THEREFORE THIS SECTION SHOULD BE ABANDONED BY TRENCH REMOVAL AS PART OF THE FINAL RESTORATION PLAN.

NOTE: THIS EXISTING 24" CONIC. DRAIN TILE ORIGINALLY WAS DESIGNED AND CONSTRUCTED TO DRAIN FLOW FROM THE UPRAMP PARKING WATERSHED. ALTHOUGH A DRAINAGE DITCH WAS LATER CONSTRUCTED AS REPLACEMENT OF THE DRAIN TILE FOR GRASSFLOW CONVEYANCE, THIS END SECTION HAS BEEN DAMAGED BY DITCH CONSTRUCTION AND SHALL BE CONSIDERED ABANDONED.

NOTE: EXISTING 3" DRAIN TILE SECTION HAS FAILED AND SHALL BE CONSIDERED ABANDONED IN PLACE.

EXISTING DRAIN TILE ROUTE LEGEND:

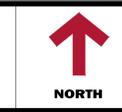
- ACTIVE DRAIN TILE SYSTEMS:**
Existing drain tile are presently active and provide positive water table control and drainage benefits. These systems continue to remove free ground water from local areas and consistently convey base flows to lower outfall systems. These drain tiles should be considered completely active.
- DORMANT DRAIN TILE SYSTEMS:**
Existing drain tiles which are dormant, surcharged and inactive. These systems are capable of reactivation if lower outfall systems are restored. These drain tiles should be considered passively active and continue to provide limited drainage benefits.
- FAILED DRAIN TILE SYSTEMS:**
Existing drain tiles which have been flooded and inactive for extended periods. These systems have restricted discharge outlets caused by silt and debris confinement within the primary surface conveyance system. These drain tiles should be considered abandoned in place.
- PROTECTED MUTUAL DRAINS:**
Existing drain tile systems which provide positive drainage benefits to the lands of others. These systems are regarded as legal mutual drains and shall be maintained and allowed to free flow in accordance with the original design intent.

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APPROVED BY AND DATE: TOM HUDDLESTON 4/9/2011	PROJECT DATE: 4/9/2011
ACKNOWLEDGMENTS: HUDDLESTON MCBRIDE DRAINAGE MAPPING SYSTEM	FIELD FILE NO.:
DRAWN BY AND DATE: TOM HUDDLESTON 4/9/2011	11-00-00ScsouthFINAL
	DRAWING NO.:
	11-00-00ScsouthFINAL_r1

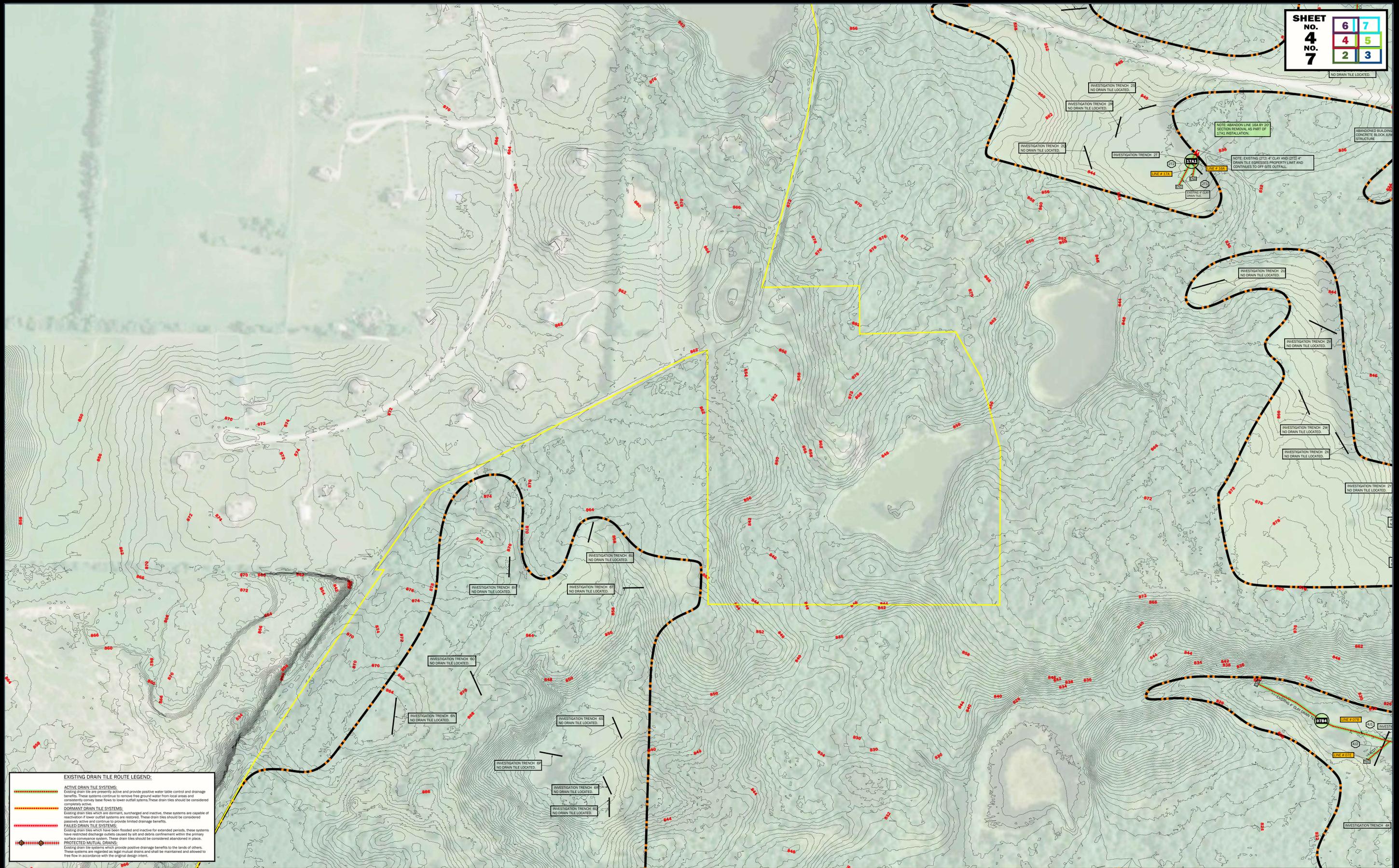
DATE: 6/27/2011	BY: TLH	DESCRIPTION: REVISIONS AND REVIEW BY TERA TECH
REVISIONS:		
WEATHER CONDITIONS: SPRING 2011		
DRAWING SCALE: 1" TO 200'	SHEET NO.:	FIELD CREW:
THREE OF SEVEN		F. MCBRIDE



SPRING CREEK SOUTH RESTORATION AREA

HUDDLESTON MCBRIDE
PROFESSIONAL LAND DRAINAGE SERVICES

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



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111 N. Canal Street, Suite 600, Chicago, IL., 60606

APPROVED BY AND DATE: TOM HUDDLESTON 4/9/2011	PROJECT DATE: 4/9/2011
ACKNOWLEDGMENTS: HUDDLESTON MCBRIDE DRAINAGE MAPPING SYSTEM	FIELD FILE NO.:
DRAWN BY AND DATE: TOM HUDDLESTON 4/9/2011	11-00-00SCsouthFINAL
	DRAWING NO.:
	11-00-00SCsouthFINAL_r1

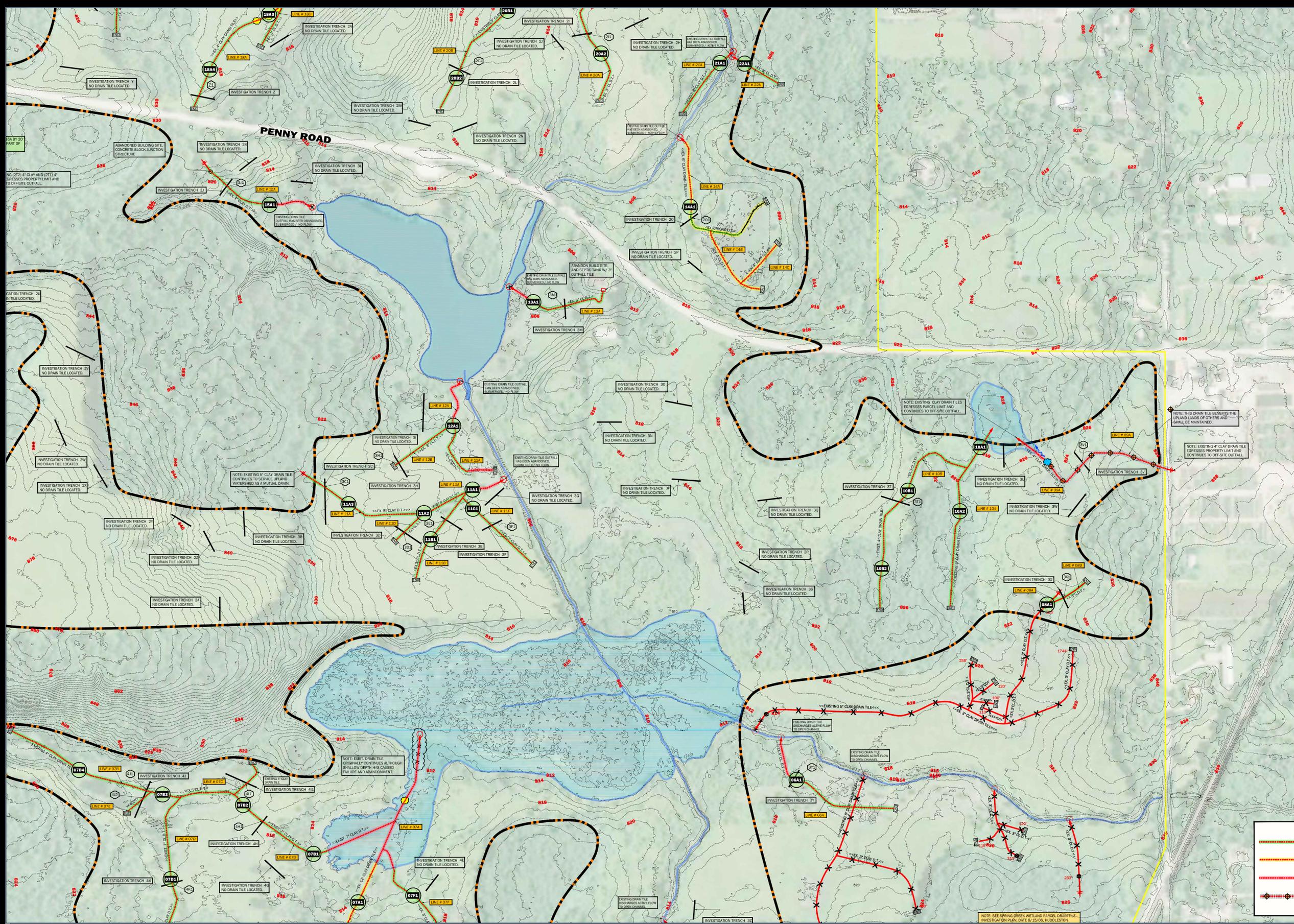
DATE: 6/27/2011	BY: TLH	DESCRIPTION: REVISIONS AND REVIEW BY TERA TECH
REVISIONS		
DATE:	BY:	DESCRIPTION:
WEATHER CONDITIONS: SPRING 2011	DRAWING SCALE: 1" TO 200'	SHEET NO. / FIELD CREW: FOUR OF SEVEN / F. McBRIDE



SPRING CREEK SOUTH RESTORATION AREA

HUDDLESTON MCBRIDE
PROFESSIONAL LAND DRAINAGE SERVICES

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- FAILED DRAIN TILE SYSTEMS:** Existing drain tiles which have been flooded and inactive for extended periods, these systems have restricted discharge outlets caused by silt and debris confinement within the primary surface conveyance system. These drain tiles should be considered abandoned in place.
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FOREST PRESERVE DISTRICT of Cook County, Illinois

US ARMY CORPS OF ENGINEERS, Environmental Planning Section
111 N. Canal Street, Suite 600, Chicago, IL., 60606

APPROVED BY AND DATE: **TOM HUDDLESTON 4/9/2011**

ACKNOWLEDGMENTS: **HUDDLESTON MCBRIDE DRAINAGE MAPPING SYSTEM**

DRAWN BY AND DATE: **TOM HUDDLESTON 4/9/2011**

PROJECT DATE: **4/9/2011**

FIELD FILE NO.: **11-00-00SCsouthFINAL**

DRAWING NO.: **11-00-00SCsouthFINAL_r1**

DATE: **6/27/2011** BY: **TLH** DESCRIPTION: **REVISIONS AND REVIEW BY TERA TECH**

REVISIONS:

WEATHER CONDITIONS: **SPRING 2011**

DRAWING SCALE: **1" TO 200'**

SHEET NO.: **FIVE OF SEVEN**

FIELD CREW: **F. McBRIDE**



SPRING CREEK SOUTH RESTORATION AREA

HUDDLESTON MCBRIDE
PROFESSIONAL LAND DRAINAGE SERVICES

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



EXISTING DRAIN TILE ROUTE LEGEND:

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FAILED DRAIN TILE SYSTEMS:
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PROTECTED MUTUAL DRAINS:
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US ARMY CORPS OF ENGINEERS, Environmental Planning Section
 111 N. Canal Street, Suite 600, Chicago, IL., 60606

APPROVED BY AND DATE: TOM HUDDLESTON 4/9/2011	PROJECT DATE: 4/9/2011
ACKNOWLEDGMENTS: HUDDLESTON MCBRIDE DRAINAGE MAPPING SYSTEM	FIELD FILE NO. NO. 11-00-00SCsouthFINAL
DRAWN BY AND DATE: TOM HUDDLESTON 4/9/2011	DRAWING NO. 11-00-00SCsouthFINAL_1

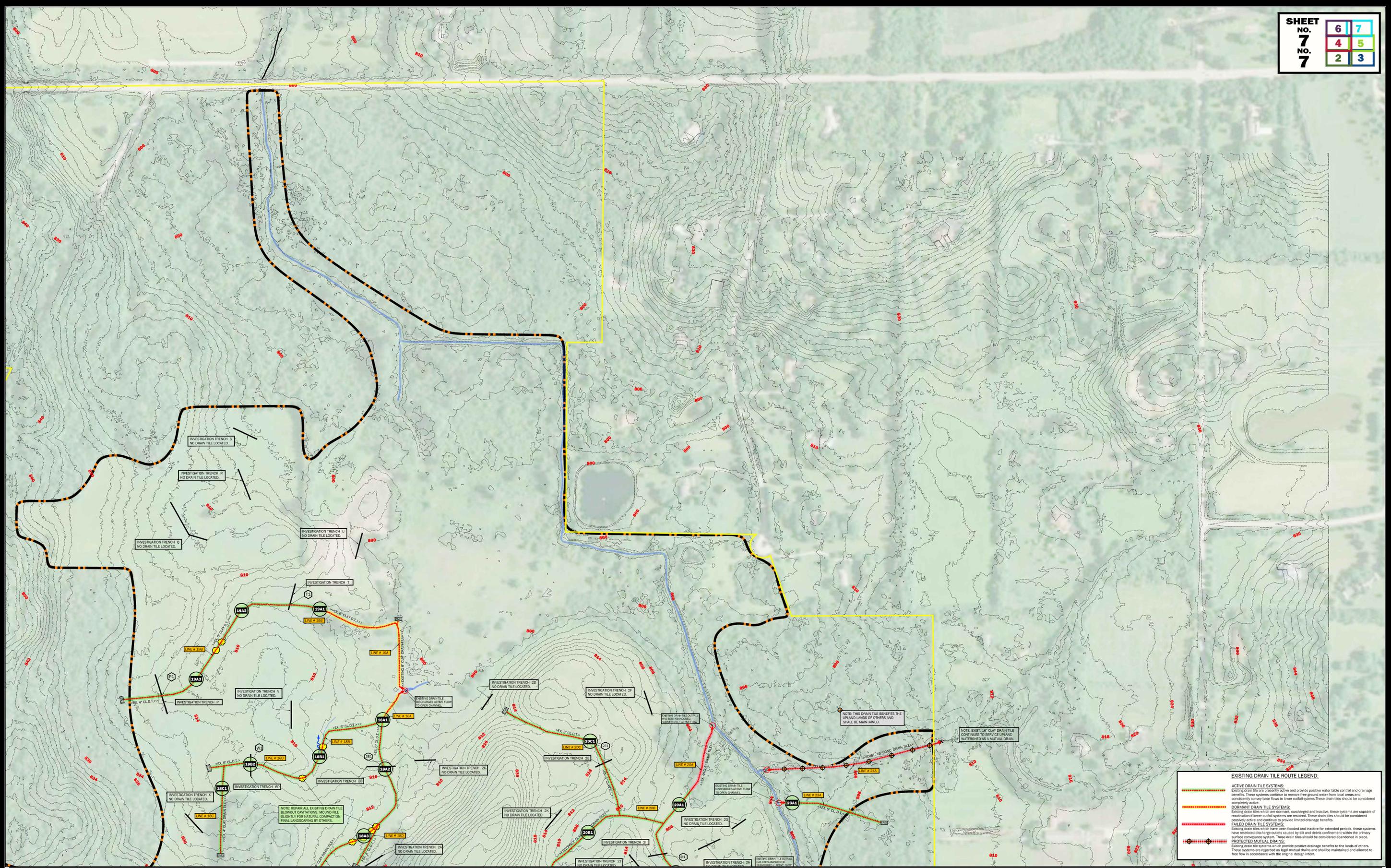
DATE: 6/27/2011	BY: TLH	DESCRIPTION: REVISIONS AND REVIEW BY TERA TECH
REVISIONS		
DATE:	BY:	DESCRIPTION:
WEATHER CONDITIONS: SPRING 2011	DRAWING SCALE: 1" TO 200'	SHEET NO. SIX OF SEVEN
FIELD CREW: F. McBRIDE		

35th Anniversary 1976-2011

ILLINOIS ARM BUREAU MEMBER

SPRING CREEK SOUTH RESTORATION AREA

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



EXISTING DRAIN TILE ROUTE LEGEND:

- ACTIVE DRAIN TILE SYSTEMS:** Existing drain tile are presently active and provide positive water table control and drainage benefits. These systems continue to remove free ground water from local areas and consistently convey base flows to lower outfall systems. These drain tiles should be considered completely active.
- DORMANT DRAIN TILE SYSTEMS:** Existing drain tiles which are dormant, surcharged and inactive, these systems are capable of reactivation if lower outlet systems are restored. These drain tiles should be considered passively active and continue to provide limited drainage benefits.
- FAILED DRAIN TILE SYSTEMS:** Existing drain tiles which have been flooded and inactive for extended periods, these systems have restricted discharge outlets closed by silt and debris confinement within the primary surface conveyance system. These drain tiles should be considered abandoned in place.
- PROTECTED MUTUAL DRAINS:** Existing drain tile systems which provide positive drainage benefits to the lands of others. These systems are regarded as legal mutual drains and shall be maintained and allowed to free flow in accordance with the original design intent.

DEPARTMENT OF ARMY U.S. CORPS OF ENGINEERS

FOREST PRESERVE DISTRICT of Cook County, Illinois

US ARMY CORPS OF ENGINEERS, Environmental Planning Section
111 N. Canal Street, Suite 600, Chicago, IL., 60606

APPROVED BY AND DATE: TOM HUDDLESTON 4/9/2011	PROJECT DATE: 4/9/2011
ACKNOWLEDGMENTS: HUDDLESTON MCBRIDE DRAINAGE MAPPING SYSTEM	FIELD FILE NO.: 11-00-00ScsouthFINAL
DRAWN BY AND DATE: TOM HUDDLESTON 4/9/2011	DRAWING NO. AND DATE: 11-00-00ScsouthFINAL_r1 SPRING 2011

DATE: 6/27/2011	BY: TLH	DESCRIPTION: REVISIONS AND REVIEW BY TERA TECH
WEATHER CONDITIONS: SPRING 2011		
DRAWING SCALE: 1" TO 200'	SHEET NO. OF TOTAL SHEETS: SEVEN OF SEVEN	FIELD CREW: F. McBRIDE



SPRING CREEK SOUTH RESTORATION AREA

HUDDLESTON McBRIDE
PROFESSIONAL LAND DRAINAGE SERVICES

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