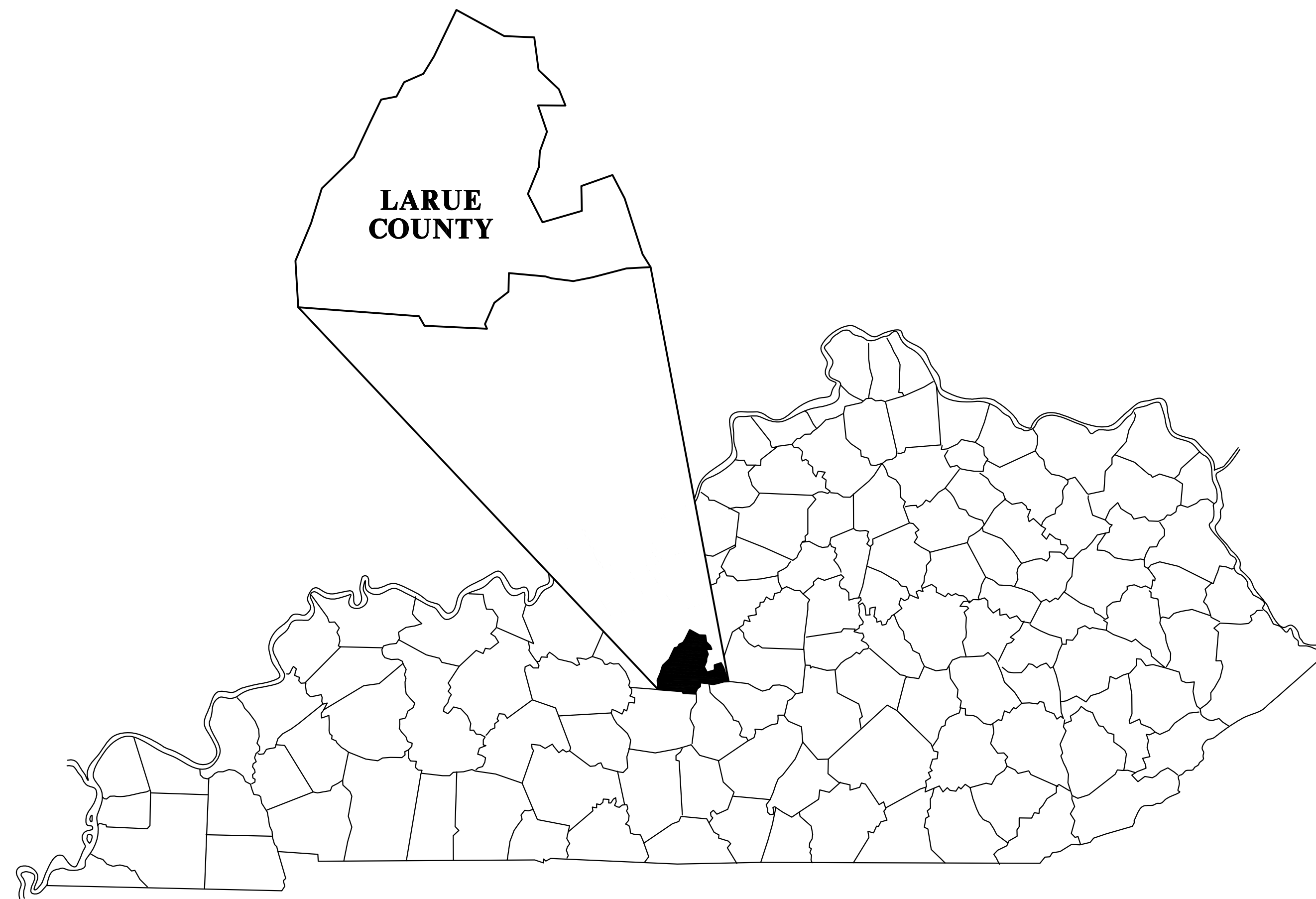


# 2020 WATER LINE IMPROVEMENTS LARUE COUNTY #1 WATER DISTRICT LARUE COUNTY, KENTUCKY CONTRACT I - WATER LINES & PUMP STATION

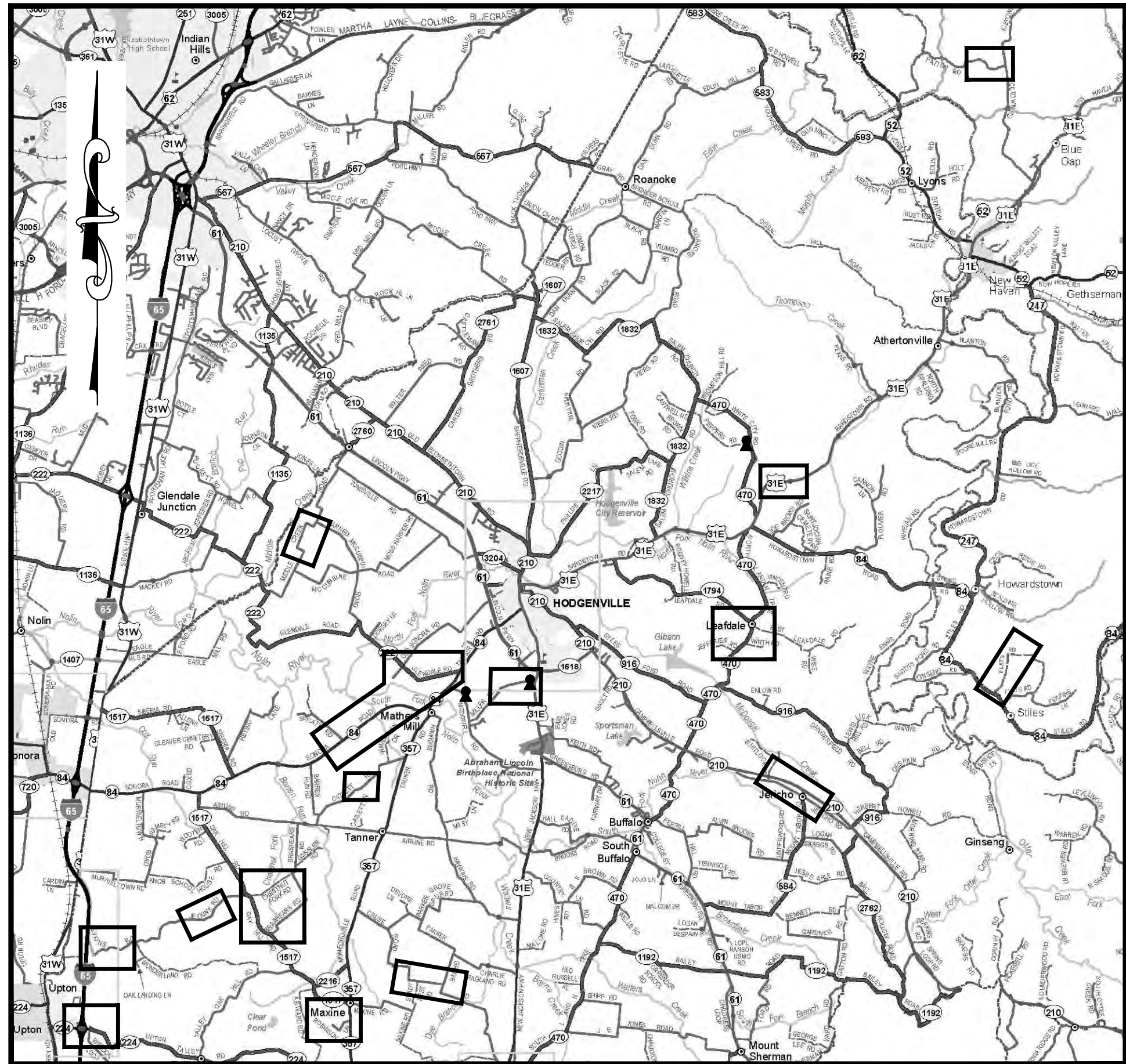


**MAY 2020**

Matthew Baker, P.E. KY Reg. No. 24507

**CT** **CANN-TECH, LLC**  
Engineers · Planners · Managers  
1100 Glensboro Road Phone (502) 859-0907  
Lawrenceburg, KY 40342 Fax (502) 859-0668

U:\LARUE COUNTY WATER DISTRICT\1465-LCWD 2020 Project\Drawings\Contract 1 - Water Lines\COVER.dwg, General Notes, 4/15/2020 9:29:52 AM, 1:1



**LOCATION MAP**  
SCALE: N.T.S.

**LEGEND**

GN1	LOCATION MAP/GENERALNOTES/ LEGEND/SHEET INDEX	32.	PATTON ROAD - STA. 0+00 TO STA. 1+20
TM1	TOPOGRAPHIC MAP	33.	BARDSTOWN ROAD - STA. 0+00 TO STA. 2+90
TM2	TOPOGRAPHIC MAP	34.	AVERY LANE - STA. 0+00 TO STA. 8+60
1.	BRASHEARS ROAD - STA. 0+00 TO STA. 15+97	35.	COX ROAD - STA. 0+00 TO STA. 13+00
2.	SOUTH JENKINS ROAD - STA. 0+00 TO STA. 9+00	36.	COX ROAD - STA. 13+00 TO STA. 22+80
3.	SOUTH JENKINS ROAD - STA. 9+00 TO STA. 19+87	37.	ROBINSON LANE - STA. 0+00 TO STA. 13+00
4.	SOUTH JENKINS ROAD - STA. 0+00 TO STA. 12+00	38.	ROBINSON LANE - STA. 13+00 TO STA. 21+90
5.	SOUTH JENKINS ROAD - STA. 12+00 TO STA. 25+70	39.	CHESTNUT FORK - STA. 0+00 TO STA. 12+00
6.	CRUSE ROAD - STA. 0+00 TO STA. 8+00	40.	CHESTNUT FORK - STA. 12+00 TO STA. 25+00
7.	CRUSE ROAD - STA. 8+00 TO STA. 21+00	41.	CHESTNUT FORK - STA. 25+00 TO STA. 31+20
8.	CRUSE ROAD - STA. 21+00 TO STA. 33+25	42.	CATLETT ROAD - STA. 0+00 TO STA. 4+20
9.	MIDDLE CREEK ROAD - STA. 0+00 TO STA. 16+00	43.	NORTH L & N TURNPIKE (HWY 470) CHECK VALVE AND VAULT
10.	MIDDLE CREEK ROAD - STA. 16+00 TO STA. 28+00	44.	WHITE CITY TANK PUMP STATION AND ALTITUDE VALVE AND VAULT
11.	MIDDLE CREEK ROAD - STA. 28+00 TO STA. 44+00	45.	MILLER ROAD - STA. 0+00 TO STA. 12+00
12.	SONORA ROAD (KY 84) - STA. 0+00 TO STA. 13+00	46.	MILLER ROAD - STA. 12+00 TO STA. 26+00
13.	SONORA ROAD (KY 84) - STA. 13+00 TO STA. 27+00	47.	MILLER ROAD - STA. 26+00 TO STA. 34+65
14.	SONORA ROAD (KY 84) - STA. 27+00 TO STA. 40+00	PS1	EXISTING MILLER ROAD PUMP STATION
15.	SONORA ROAD (KY 84) - STA. 40+00 TO STA. 44+44	PS2	MCDOWELL PUMP STATION FLOOR/SKID PLANS
16.	LENDALE ROAD (KY 222) - STA. 0+00 TO STA. 12+00	PS3	MCDOWELL PUMP STATION SECTIONS AND DETAILS
17.	LENDALE ROAD (KY 222) - STA. 12+00 TO STA. 25+00	SD1	STANDARD DETAILS
18.	LENDALE ROAD (KY 222) - STA. 25+00 TO STA. 38+00	SD2	STANDARD DETAILS
19.	LENDALE ROAD (KY 222) - STA. 38+00 TO STA. 51+00	SD3	STANDARD DETAILS
20.	LENDALE ROAD (KY 222) - STA. 51+00 TO STA. 59+75	SD4	STANDARD DETAILS
21.	E. LEAFDALE ROAD - STA. 0+00 TO STA. 4+53	SD5	STANDARD DETAILS
22.	AIRLINE ROAD - STA. 0+00 TO STA. 14+00		
23.	AIRLINE ROAD - STA. 14+00 TO STA. 28+00		
24.	AIRLINE ROAD - STA. 28+00 TO STA. 37+40		
25.	CAMPBELLSVILLE ROAD (KY 210) STA. 0+00 TO STA. 13+00		
26.	CAMPBELLSVILLE ROAD (KY 210) STA. 13+00 TO STA. 26+00		
27.	CAMPBELLSVILLE ROAD (KY 210) STA. 26+00 TO STA. 36+48		
28.	FLATS ROAD - STA. 0+00 TO STA. 13+00		
29.	FLATS ROAD - STA. 13+00 TO STA. 26+00		
30.	FLATS ROAD - STA. 26+00 TO STA. 39+00		
31.	FLATS ROAD - STA. 39+00 TO STA. 52+24		

**GENERAL NOTES**

- ALL WATER MAINS SHALL BE SDR-17, CL. 250 UNLESS OTHERWISE NOTED ON THE PLANS.
- ALL WATER MAINS SHALL HAVE A MINIMUM OF 336 INCHES OF COVER FROM THE TOP OF PIPE, MEASURED FROM TOP OF PIPE TO HIGH SIDE OF THE DITCH.
- UNLESS OTHERWISE NOTED, A SEPARATE BID ITEM AS NOT BEEN ESTABLISHED FOR FITTINGS. THE FITTINGS INVOLVED, BUT NOT LIMITED TO TEES, BENDS, PLUGS, REDUCERS, SADDLES, CROSSES, COUPLINGS, ETC. CONTRACTOR SHALL INCLUDE THE COST OF THESE ITEMS IN THE UNIT PRICE BID FOR THE PIPE.
- NO PAY ITEM FOR EXTRA, TRENCH DEPTH HAS BEEN ESTABLISHED. CONTRACTOR SHALL INCLUDE THE COST OF THE ADDITIONAL DEPTH IN HIS UNIT PRICE WHEN THE WATER PIPE CROSSES UNDER AN EXISTING UTILITY, CULVERT, DRAINAGE DITCH, ROADWAY, ETC.
- FINAL LOCATION OF SERVICES, GATE VALVES AND OTHER APPURTENANCES ARE TO BE FIELD LOCATED DURING CONSTRUCTION AND APPROVED BY THE ENGINEER.
- EXISTING UTILITIES, ESPECIALLY GAS LINE AND OIL LINES MAY BE CATHODICALLY PROTECTED; THEREFORE, DUCTILE IRON PIPE, FITTINGS, GATE VALVES, AND/OR BOXES LAID WITHIN 100' OF THESE LINES WITH CATHODIC PROTECTION SHALL MEET THE REQUIREMENTS OF AWWA C-105, LATEST REVISION. A SEPARATE ITEM HAS NOT BEEN ESTABLISHED. ALL COST FOR LABOR AND MATERIALS MUST BE INCLUDED IN THE UNIT PRICE BID FOR PIPE.
- ALL DAMAGE TO EXISTING UTILITIES CAUSED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.
- ALL CONCRETE THRUST BLOCKS AND RESTRAINTS ARE NOT SHOWN ON THE DRAWING; HOWEVER, CONCRETE THRUST BLOCKS SHALL BE INSTALLED AT ALL BENDS, TEES, CROSSES, DEAD ENDS, ETC. THRUST BLOCKS SHALL BE SIZED ACCORDINGLY AS SHOWN ON THE THE CONCRETE THRUST BLOCK DETAIL ANY ADDITIONAL THRUST BLOCKS REQUIRED SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE PIPE. THRUST BLOCK SHALL BE POURED IN PLACE READY MIX CONCRETE, MINIMUM 3000 P.S.I.
- THE CONTRACTOR SHALL CONFINE ALL CONSTRUCTION ACTIVITY TO THE AREA WITHIN THE EXISTING EASEMENTS AND CONSTRUCTION LIMITS, UNLESS OTHERWISE APPROVED IN WRITING BY THE OWNER.
- THE CONTRACTOR WILL BE SOLELY LIABLE FOR ANY WORK HE PERFORMS OUTSIDE OF LEGAL EASEMENTS OR CONSTRUCTION LIMITS.
- SEPTIC SYSTEMS MAY BE LOCATED IN SOME AREAS. CONTRACTOR TO USE CAUTION IN THESE AREAS. WATER MAIN TO BE ENCASED IN CONCRETE WHEN LAID WITHIN 10' OF DRAIN LINES OR FIELD. SEE DETAILS AND NOTE ON STANDARD DETAIL SHEET. WHERE DRAIN LINES ARE ENCOUNTERED AND IT IS DETERMINED THAT THE LINES NEED TO BE CONCRETE ENCASED THE CONTRACTOR SHALL BE PAID AT THE UNIT PRICE BID FOR CONCRETE. NO OTHER ADDITIONAL COMPENSATION WILL BE APPROVED.
- IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO ASCERTAIN THE LOCATIONS OF ANY AND ALL UTILITIES ENCOUNTERED BY THE FINAL ALIGNMENT OF THE WATER LINE. THE CONTRACTOR SHALL USE CAUTION WHEN EXCAVATING AND SHALL TAKE THE NECESSARY MEASURES TO PROTECT THE EXISTING UTILITIES TO KEEP THEM IN SERVICE. IF UTILITIES ARE SHOWN, THE INFORMATION IS GENERAL IN NATURE AND NOT TO BE TAKEN AS RECORD DRAWINGS. CONTRACTOR SHALL CONTACT REPRESENTATIVES OF LOCAL UTILITIES A MINIMUM OF 48 HOURS BEFORE COMMENCING WORK ON THE PROJECT.
- THE CONTRACTOR SHALL OBTAIN ALL PERMITS AND GIVE ALL NOTICES REQUIRED FOR EXECUTION OF THE WORK. THE CONTRACTOR SHALL PAY FOR ALL PERMITS AND ANY APPLICABLE WATER SERVICE INSPECTION FEES.
- THE CONTRACTOR SHALL CONFIRM TO ALL LOCAL, STATE AND FEDERAL CODES AND RECEIVE APPROVAL WHERE NECESSARY PRIOR TO COMMENCEMENT OF THE WORK.
- ALL PIPING BENDS ARE NOT NECESSARILY SHOWN ON THE DRAWINGS. ADDITIONAL BENDS MAY BE NECESSARY TO CONFORM WITH ELEVATIONS SHOWN AND TO MAINTAIN ADEQUATE GROUND COVER. ANY ADDITIONAL BENDS REQUIRED SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE PIPE.
- THE ENGINEER RESERVES THE RIGHT TO MAKE MINOR FIELD ADJUSTMENTS IN THE WORK IN ORDER TO ACCOMPLISH THE INTENT OF THE DESIGN.
- WHERE KYTC RIGHT-OF-WAY LINES ARE INDICATED THE LOCATION IS APPROXIMATE ONLY. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL FINAL RIGHT-OF-WAY LINES.
- EFFORTS HAVE BEEN MADE TO INDICATE ACCURATE LOCATIONS OF EXISTING STRUCTURES, PIPING AND UTILITIES. HOWEVER, THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SITE AND OTHER EXISTING CONDITIONS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN INFORMATION DEPICTED BY THE CONSTRUCTION DRAWINGS AND ACTUAL FIELD CONDITIONS WHICH WOULD SIGNIFICANTLY ALTER THE DESIGN INTENT OF THE CONSTRUCTION OPERATIONS. DIMENSIONS OF EXISTING STRUCTURES AND /OR SITE RESTRICTIONS ARE APPROXIMATE. IT IS THE CONTRACTORS RESPONSIBILITY TO OBTAIN AND CONFIRM ALL DIMENSIONS AND ELEVATIONS OF EXISTING STRUCTURES AND TOPOGRAPHY IN THE FIELD NECESSARY FOR HIS CONSTRUCTION OPERATION.
- THE CONTRACTOR SHALL USE ALL POSSIBLE CARE DURING EXCAVATION ON THIS PROJECT SO AS NOT TO DISTURB OR DAMAGE ANY EXISTING UTILITY OR STRUCTURE NOT SCHEDULED FOR DEMOLITION WHETHER DEPICTED OR NOT IN THE CONSTRUCTION DRAWINGS. ANY DAMAGE TO THE AFORE MENTIONED ITEMS CAUSED DIRECTLY OR INDIRECTLY BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER TO A CONDITION EQUAL TO OR BETTER THAN THAT WHICH EXISTED PRIOR TO BEING DAMAGED.
- IT IS THE CONTRACTORS RESPONSIBILITY TO CONTACT ALL EXISTING UTILITY OWNERS AND HAVE THEM FIELD LOCATE THEIR EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION ACTIVITIES.
- EXISTING UTILITIES DEPICTED IN THE CONSTRUCTION DRAWINGS WERE LOCATED FROM ACTUAL FIELD EVIDENCE, EXISTING UTILITY AGENCIES RECORDS OR OTHER AVAILABLE EVIDENCE. OTHER UTILITIES MAY EXIST AND NOT BE SHOWN OR MAY VARY FORM WHERE SHOWN. NO GUARANTEE IS EXPRESSED OR IMPLIED AS TO ACTUAL LOCATION OF UTILITIES SHOWN HEREON, BUT NOT VISIBLE FORM THE SURFACE.
- THE CONTRACTOR SHALL CONFINE ALL CONSTRUCTION ACTIVITIES TO THE AREA WITHIN EXISTING EASEMENTS AND CONSTRUCTION LIMITS UNLESS OTHERWISE APPROVED IN WRITING BY THE OWNER.
- UNLESS OTHERWISE NOTED, ALL BURIED PIPES SHALL HAVE 36" (MIN.) COVER AS MEASURED FROM FINISHED GRAD TO THE OUTSIDE SURFACE OF THE PIPE.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO WORK ALL APPLICABLE DRAWINGS AND THE APPROPRIATE SPECIFICATIONS AS A UNIT. ANY OMISSIONS, DELETIONS, OR CONFLICTS ARISING AS A RESULT OF FAILURE TO INCORPORATE ALL DRAWINGS AND SPECIFICATIONS WHICH APPLY SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDED COST TO THE OWNER.
- ALL WORK DONE WITHIN THE CONFINES OF THE EXISTING RAILROAD RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH ALL APPLICABLE RAILROAD REQUIREMENTS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONTRACT AND COORDINATE WITH THE PROPER RAILROAD AUTHORITIES AS REQUIRED.
- EXISTING WATER METERS LOCATED ON STATE RIGHT-OF-WAY FOUND WITHIN THE PROJECT SHALL BE RELOCATED TO PRIVATE PROPERTY PER DEPARTMENT OF HIGHWAYS. CONTRACTOR SHALL NOTIFY LARUE COUNTY WATER DISTRICT AND ENGINEER BEFORE RELOCATING.
- OPEN CUT OF STATE ROAD MAY BE NECESSARY. PRIOR TO OPEN CUTTING THE STATE ROAD THE CONTRACTOR SHALL NOTIFY JAKE RIGGS (270) 401-8132 AND ENGINEER. CONTRACTOR SHALL FILL ENTIRE TRENCH WITH FLOWABLE FILL TO BOTTOM OF ASPHALT LAYER. CONTRACTOR SHALL MATCH THE EXISTING ASPHALT LAYERS.

**KENTUCKY TRANSPORTATION CABINET- DEPARTMENT OF HIGHWAYS GENERAL NOTES**


- ALL WATER LINE ON STATE RIGHT-OF-WAY SHALL BE INSTALLED WITH A MINIMUM DEPTH OF COVER OF 42 INCHES.
- WATER MAIN CROSSING ANY PAVED DRIVEWAY INSIDE STATE RIGHT-OF-WAY SHALL BE INSTALLED BY BORING UNLESS WRITTEN PERMISSION TO OPEN CUT IS OBTAINED FROM THE PROPERTY OWNER.
- NO DIRT TO BE STOCK PILED ON PAVEMENT.
- IN AREAS WHERE DITCH LINE NEEDS CORRECTED FLOWS, CONTRACTOR SHALL BASE PIPE COVER ON ASSUMED DEPTH OF DITCH WITH CORRECTED FLOW.
- WATER MAIN SHALL BE INSTALLED A MINIMUM OF 5' BEHIND ROAD DRAINS AND TILES.
- NO EQUIPMENT SHALL BE LEFT ON STATE RIGHT-OF-WAY AFTER WORK HAS STOPPED FOR THE DAY.
- ALL VALVES AND METERS SHALL BE INSTALLED ON BACKSIDE OF DITCH OR OFF STATE RIGHT-OF-WAY.

**LEGEND**

PROPOSED WATER LINE	
EXISTING WATER LINE	
METER SETTING	
METER SETTING WITH PRV	
EXISTING METER SETTING	
PROPOSED GATE VALVE	
EXISTING GATE VALVE	
AIR RELEASE VALVE	
PROPOSED FIRE HYDRANT/BLOWOFF HYDRANT	
EXISTING FIRE HYDRANT	
PROPOSED BLOWOFF ASSEMBLY	
EXISTING BLOWOFF ASSEMBLY	
PROPOSED GRAVITY SEWER LINE	
EXISTING GRAVITY SEWER LINE	
PROPOSED MANHOLE	
EXISTING MANHOLE	
PROPOSED SEWER LATERAL WITH CAP	
EXISTING GAS LINE	
EXISTING ELECTRIC LINE	
EXISTING POWER POLE	
EXISTING CURB AND GUTTER	
EXISTING ROAD	
EXISTING SIDEWALK	
EXISTING STREAM/POND	
EXISTING FENCE	
EXISTING RIGHT-OF-WAY	
EXISTING PROPERTY LINE	
POWER POLE	
TELEPHONE BOX	
REDUCER	
RESIDENCE (RES.)	R
GARAGE (GAR.)	G
SHED	S
BARN	B
CHURCH	CH
STORE	ST
ABANDONED RESIDENCE	A.R.
UNDER GROUND	U.G.
CELLAR	C
SERVICE STATION	S.S.
GAS PUMPS	G.P.

NO.	DATE	REVISIONS	DATE	APPR'D	DATE

PROJECT: 467	DATE: 3/12/2020
SCALE: AS NOTED	
DESIGNED BY: MAB	
DRAWN BY: JH	
CHECKED BY: MAB	
RECORD DRAWINGS	



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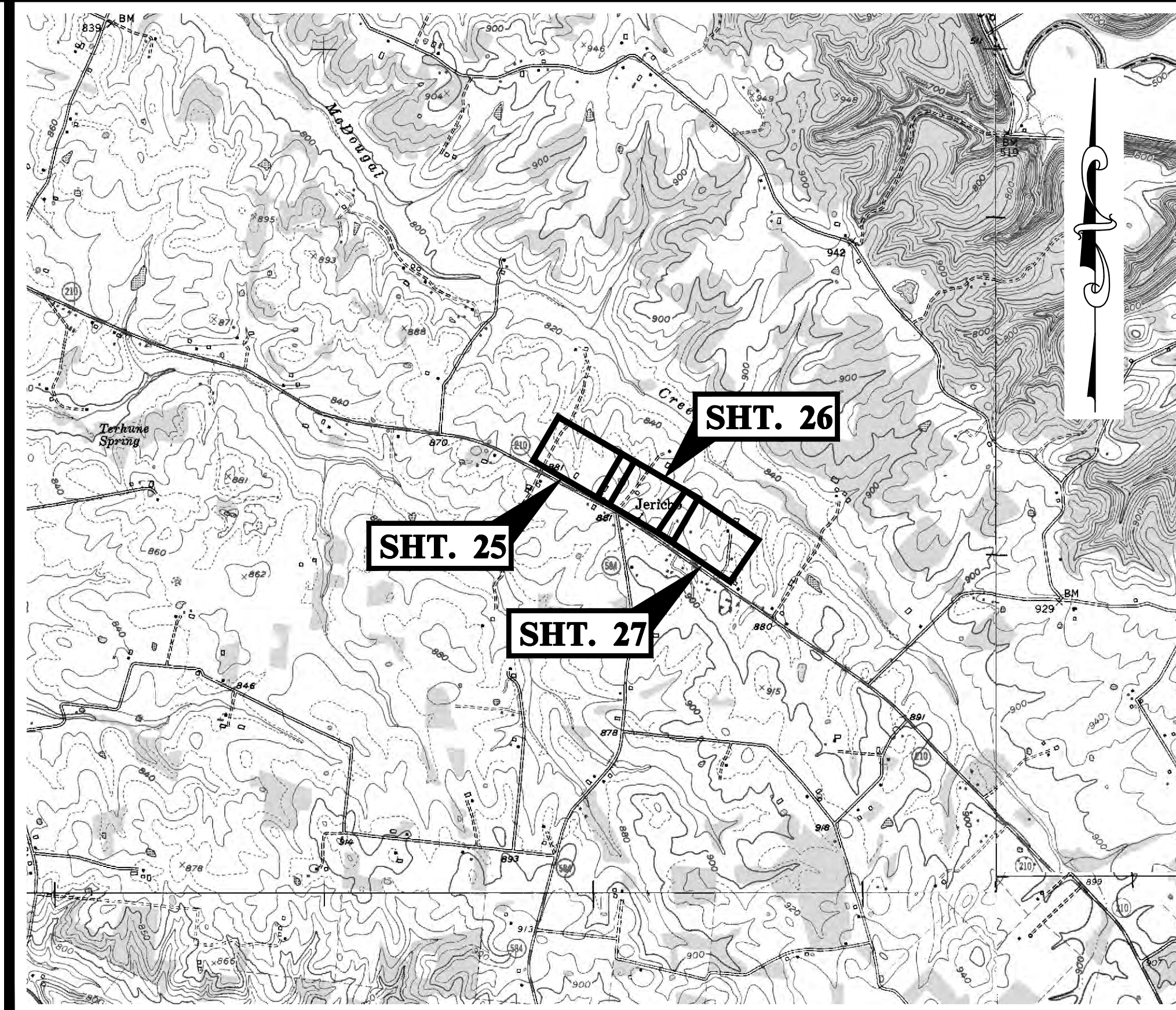
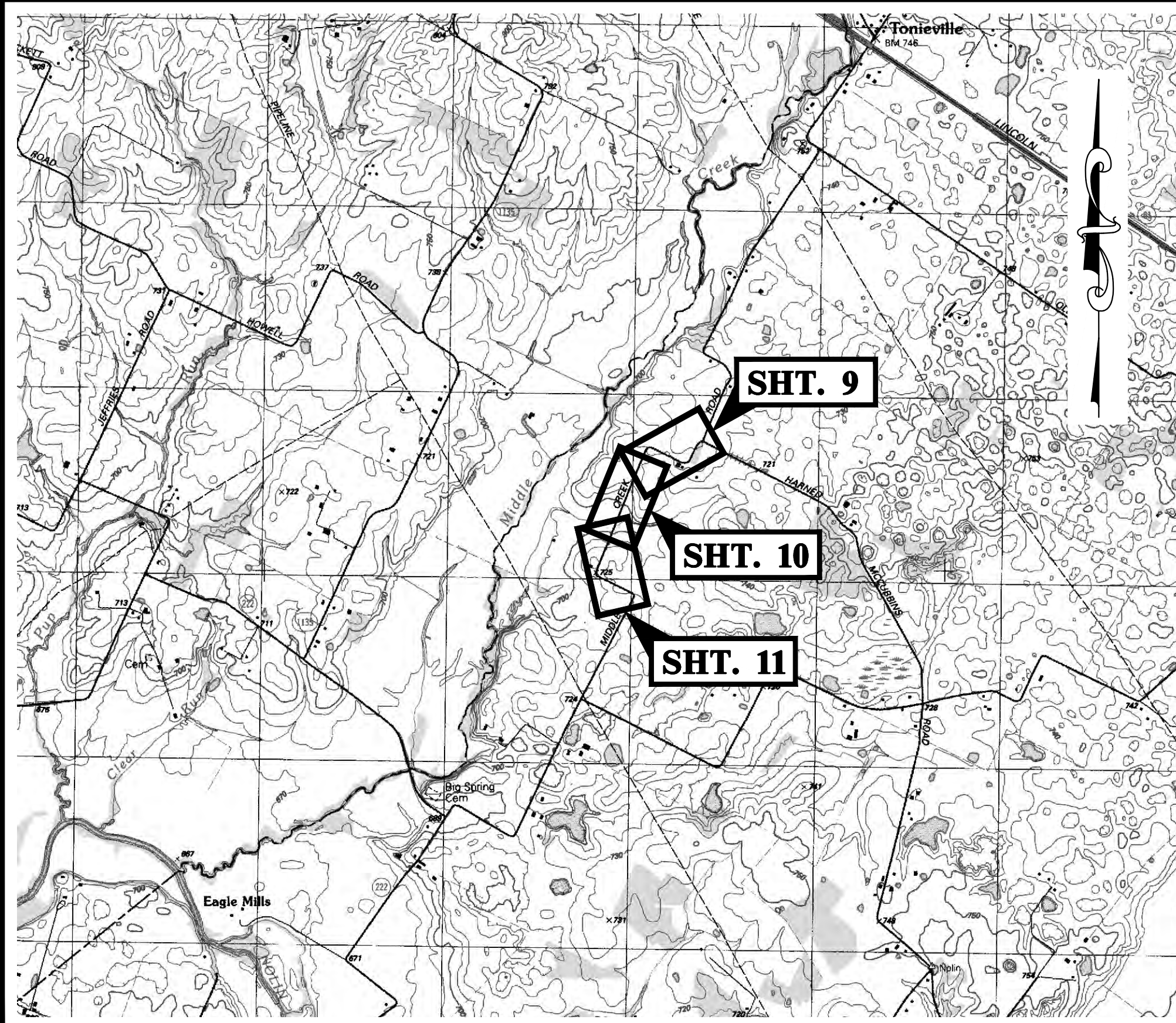
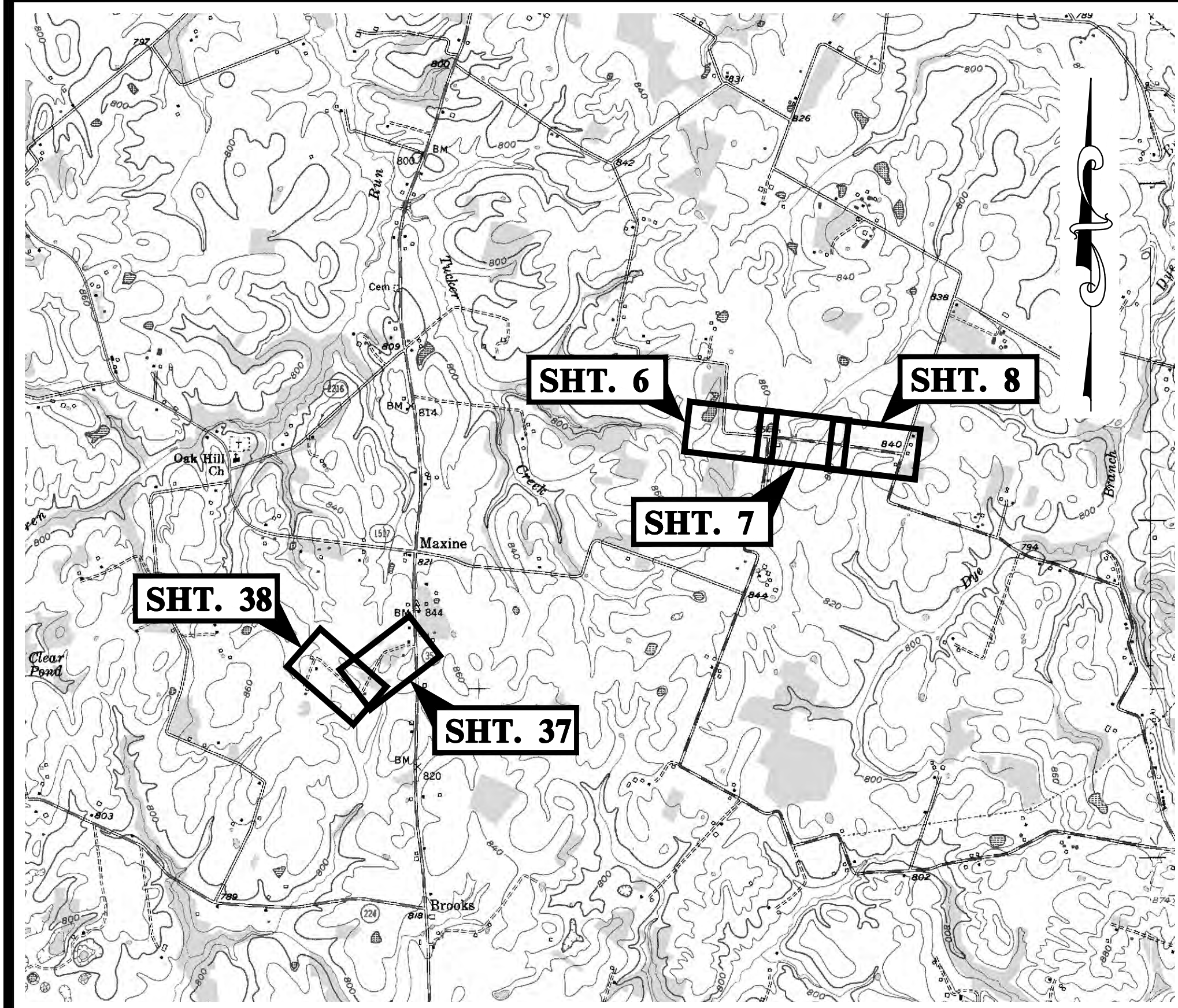
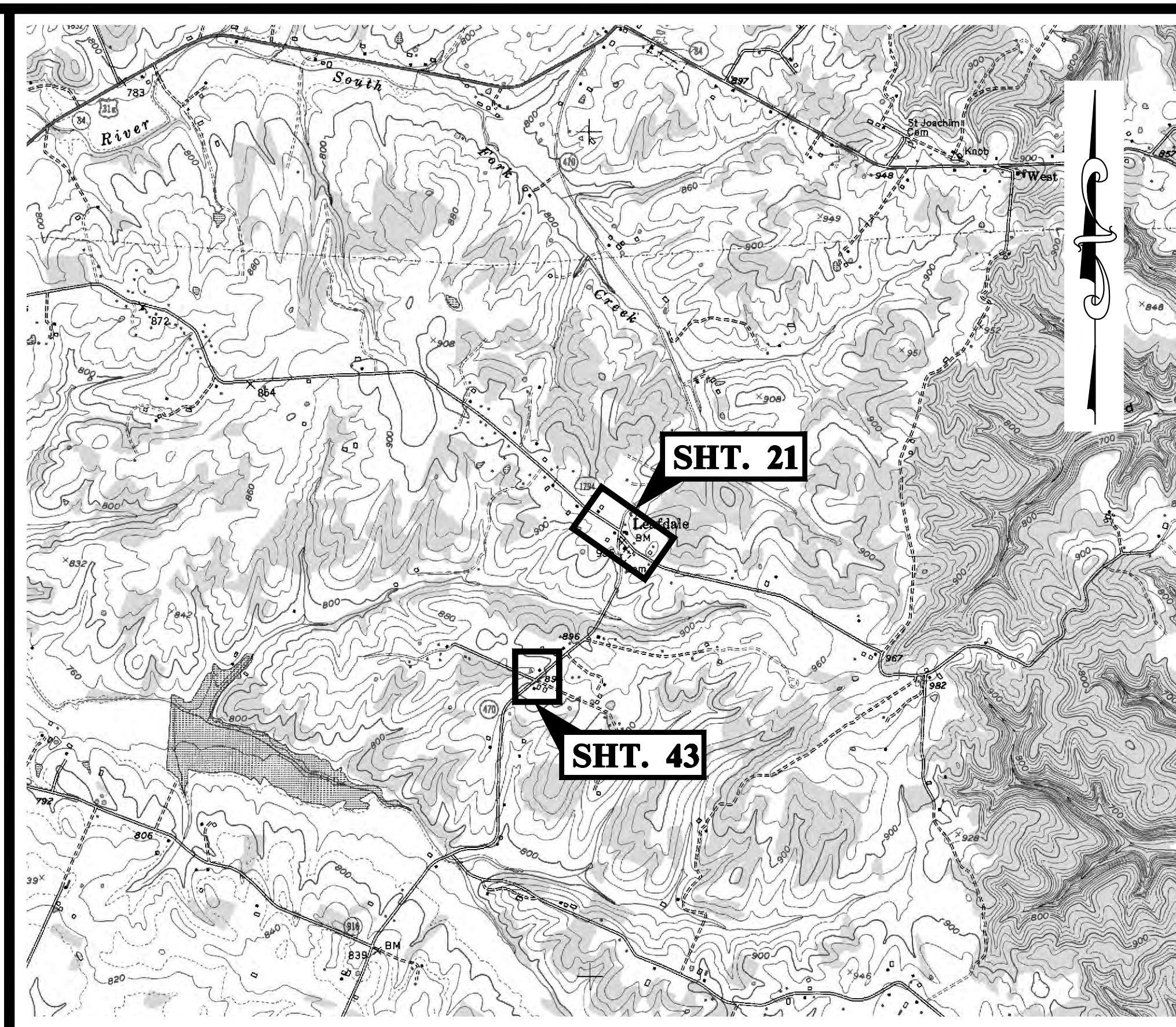
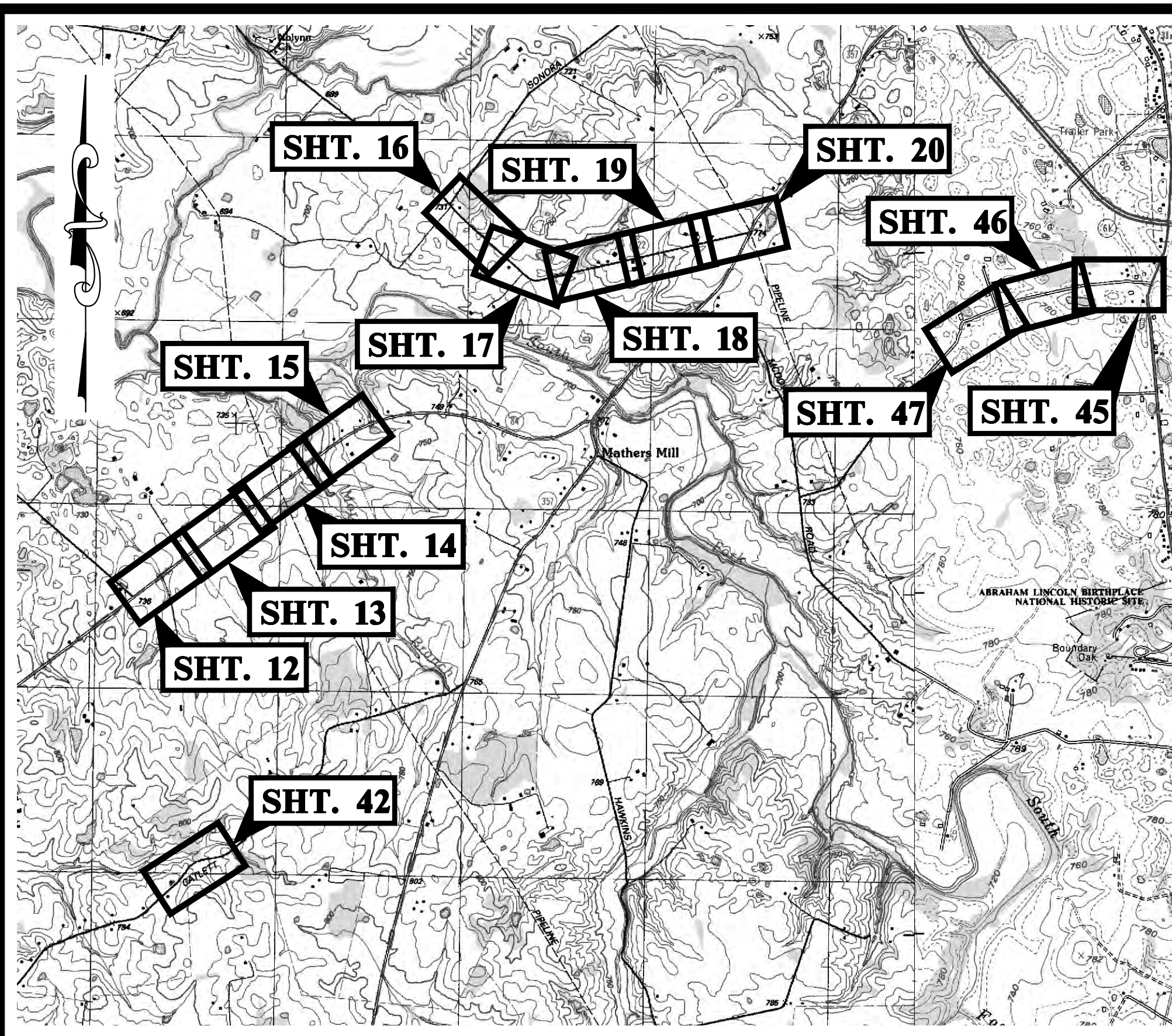
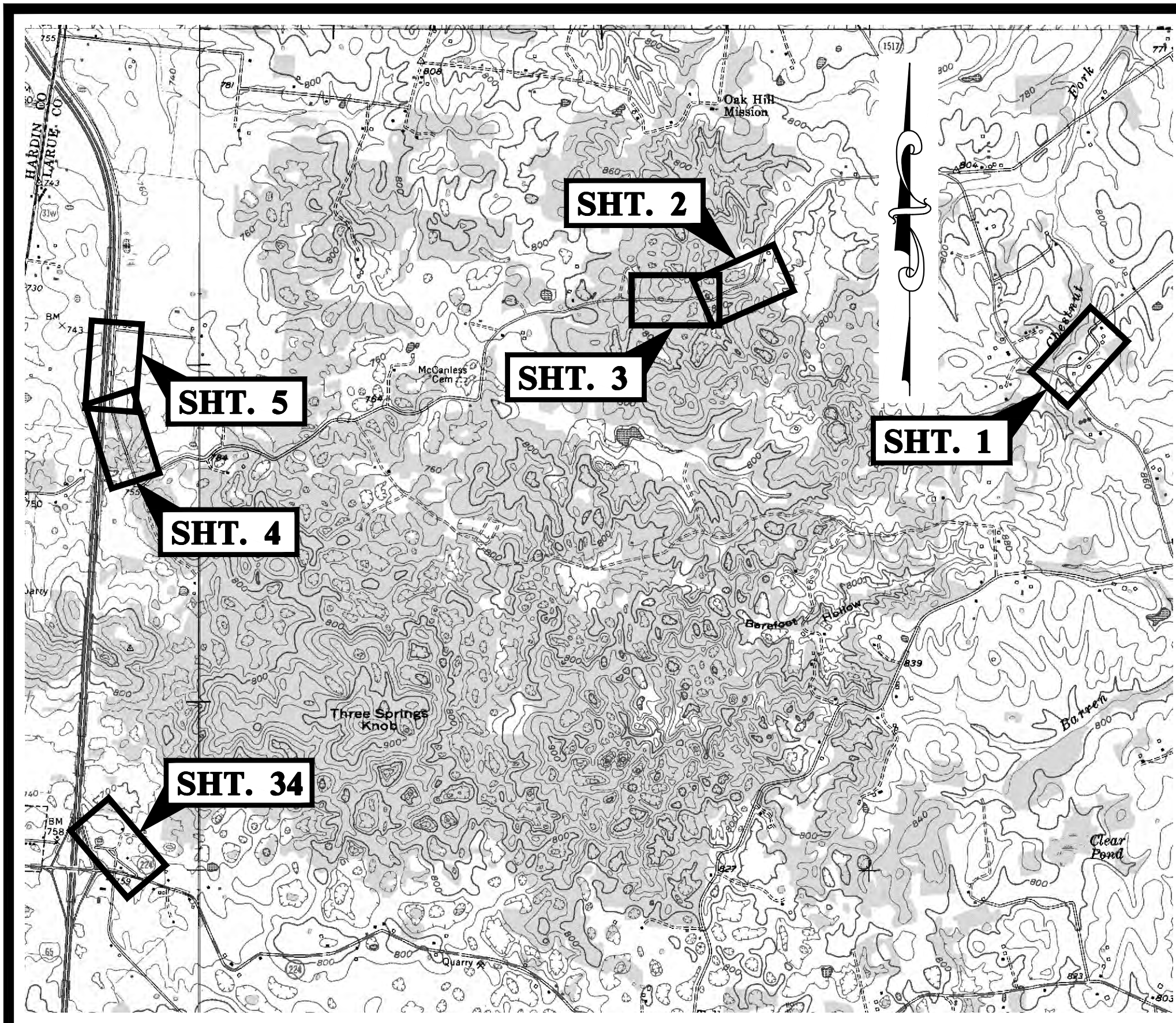
**LCWD 2020 WATER IMPROVEMENTS**  
**LARUE COUNTY WATER DISTRICT**  
**LARUE COUNTY, KENTUCKY**

GENERAL NOTES/SHEET INDEX/LEGEND  
LOCATION MAP

SHEET	GN1
OF	GN1



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NO.	DATE	REVISIONS	DATE	APPR'D	DATE

PROJECT: 467	DATE: 3/12/2020
SCALE: AS NOTED	
DESIGNED BY: MAB	
DRAWN BY: JH	
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RECORD DRAWINGS	

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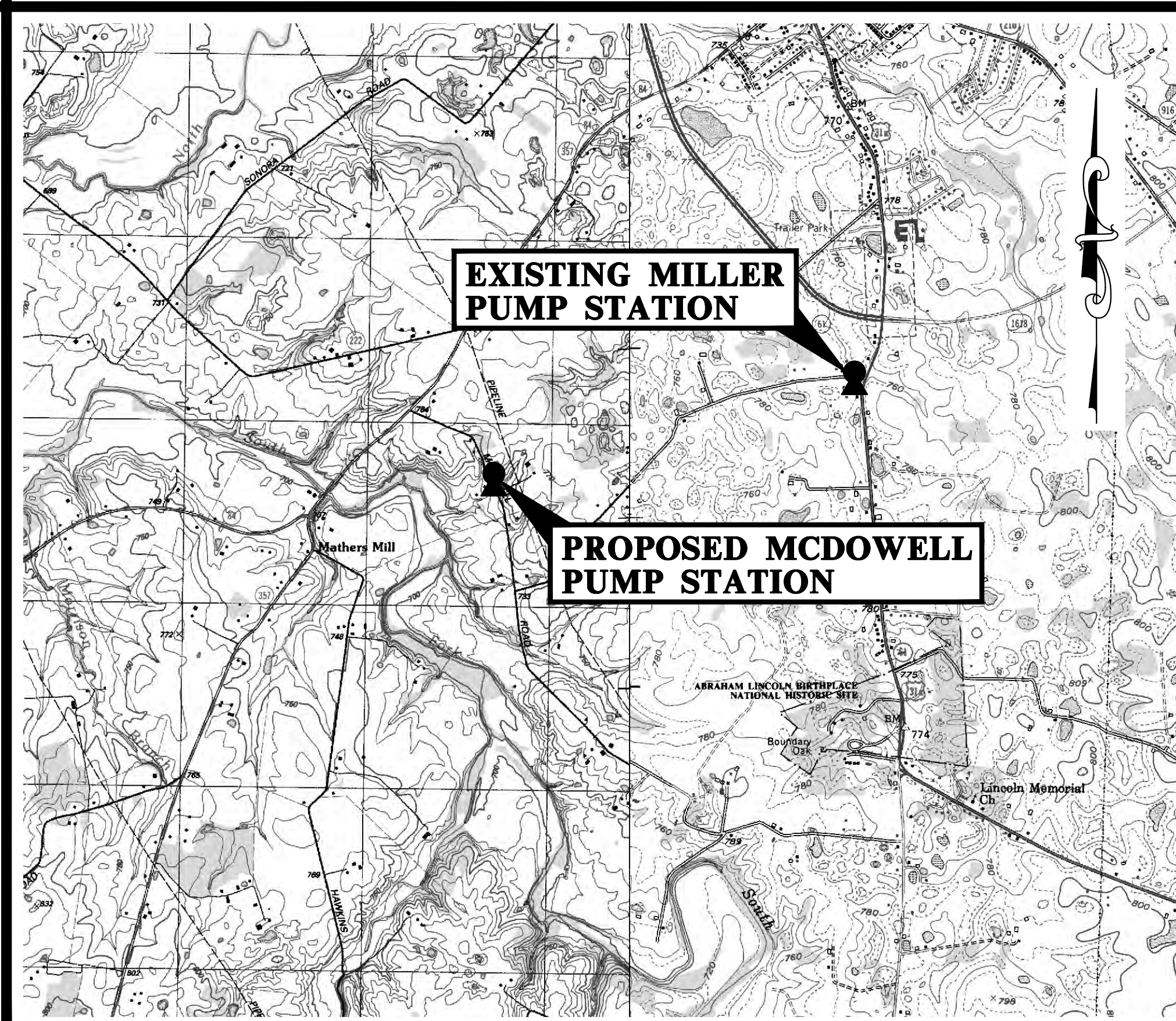
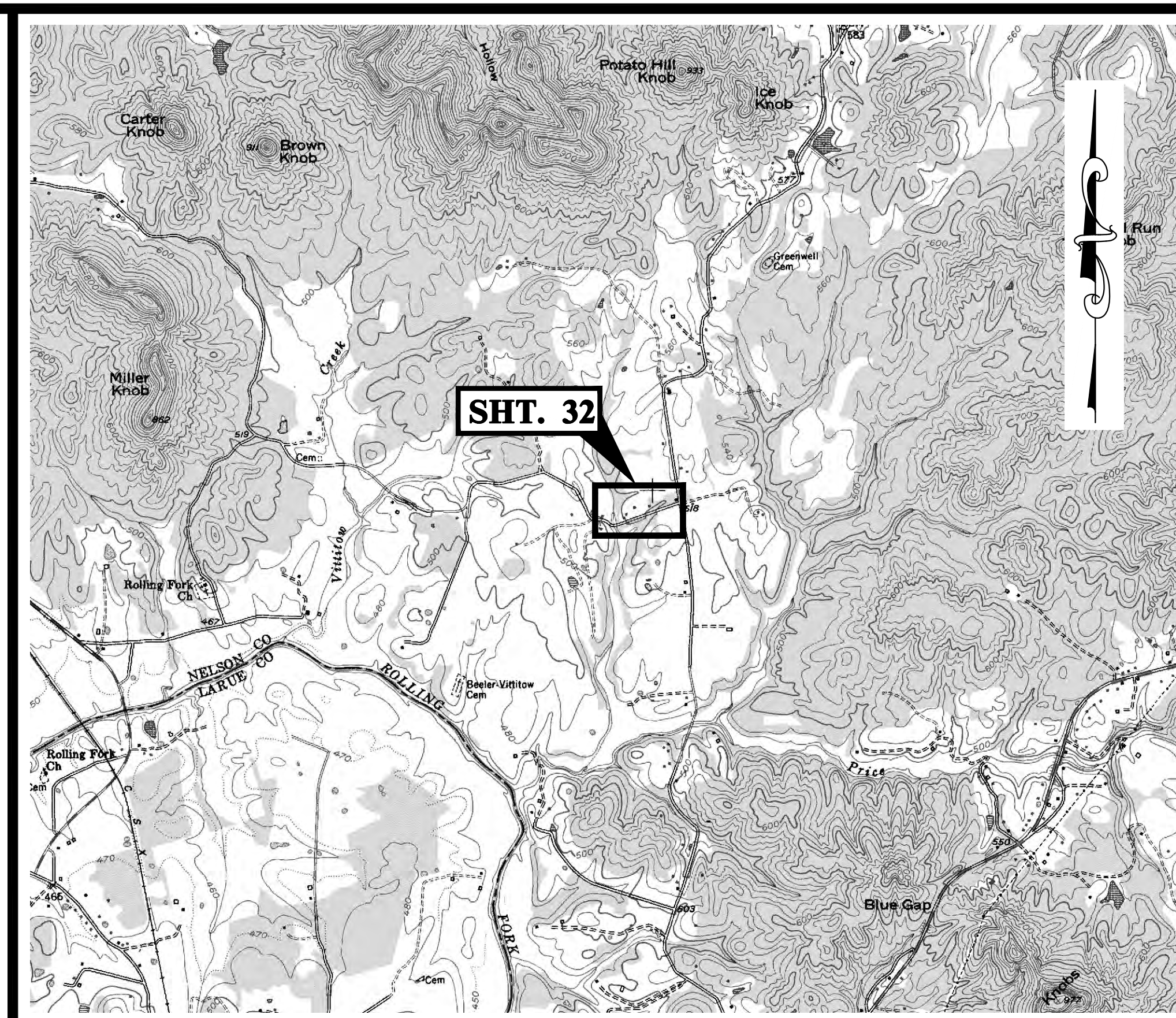
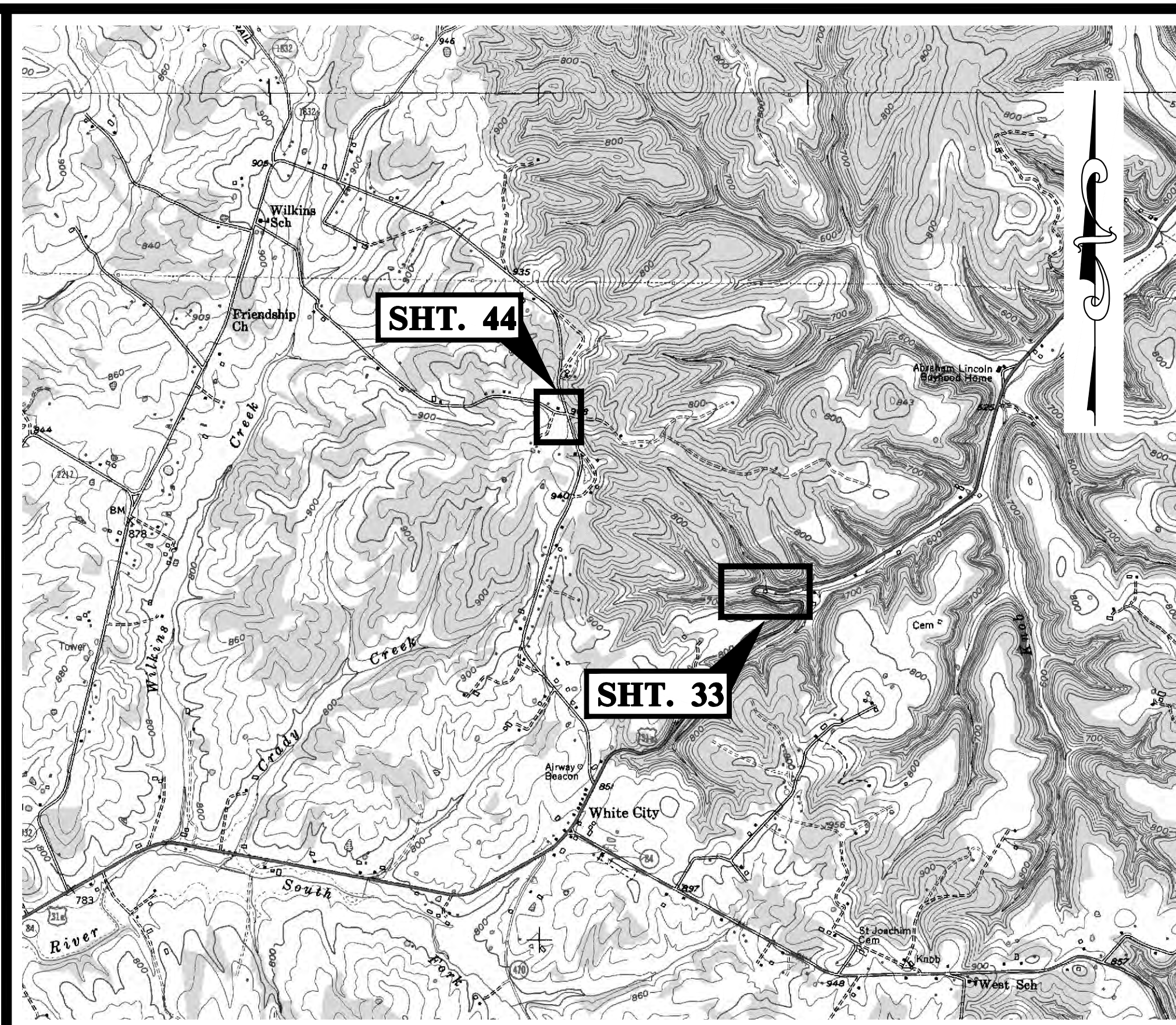
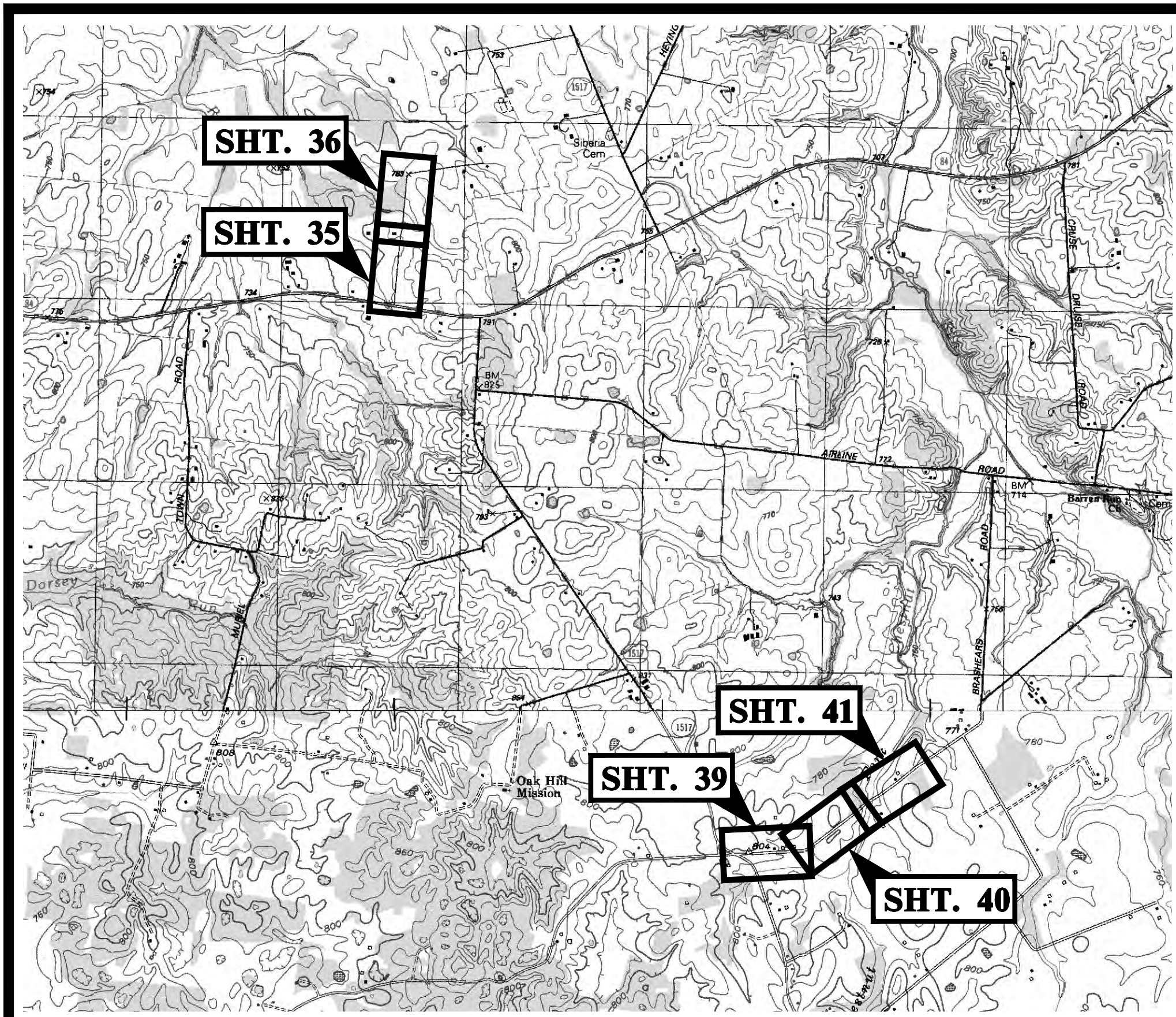
**2020 WATER LINE IMPROVEMENTS**  
**LARUE COUNTY #1 WATER DISTRICT**  
**LARUE COUNTY, KENTUCKY**

TOPOGRAPHIC MAP

SHEET  
 TM1  
 OF  
 TM2



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NO.	DATE	REVISIONS	DATE	APPR'D	DATE

PROJECT: 467      DATE: 3/12/2020  
 SCALE: AS NOTED

DESIGNED BY: MAB  
 DRAWN BY: JH  
 CHECKED BY: MAB  
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**2020 WATER LINE IMPROVEMENTS**  
**LARUE COUNTY #1 WATER DISTRICT**  
**LARUE COUNTY, KENTUCKY**

TOPOGRAPHIC MAP

SHEET  
 TM2  
 OF  
 TM2



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INSTALL  
 1-6"x4"x6" M.J. TEE  
 2-6" GATE VALVES  
 1-4" GATE VALVE  
 1-CONCRETE THRUST BLOCKING  
 (SEE DETAIL)

NOTES:  
 ALL PAVED DRIVEWAYS TO BE FREE BORED.  
 ALL GRAVEL DRIVEWAYS TO BE BACKFILLED WITH #57 STONE.

NO.	DATE	REVISIONS	DATE	APPR'D	DATE

PROJECT: 467      DATE: 3/26/2020  
 SCALE: 1" = 50'

DESIGNED BY: MAB  
 DRAWN BY: JH  
 CHECKED BY: MAB  
 RECORD DRAWINGS

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**LCWD 2020 WATER IMPROVEMENTS**  
**LARUE COUNTY WATER DISTRICT**  
**LARUE COUNTY, KENTUCKY**

BRASHEARS ROAD  
 STATION 0+00.00 TO STATION 15+97

SHEET  
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 44



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**NOTES:**  
 ALL PAVED DRIVEWAYS TO BE FREE BORED.  
 ALL GRAVEL DRIVEWAYS TO BE BACKFILLED WITH #57 STONE.

NO.	DATE	REVISIONS	DATE	APPR'D	DATE

PROJECT: 467      DATE: 3/26/2020  
 SCALE: 1" = 50'

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**LCWD 2020 WATER IMPROVEMENTS**  
**LARUE COUNTY WATER DISTRICT**  
**LARUE COUNTY, KENTUCKY**

SOUTH JENKINS ROAD  
 STATION 0+00 TO STATION 9+00

SHEET  
 2  
 OF  
 44



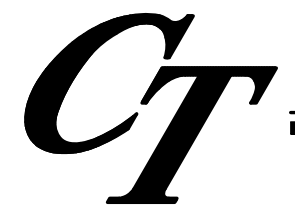


**NOTES:**  
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 WITH #57 STONE.

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**LCWD 2020 WATER IMPROVEMENTS**  
**LARUE COUNTY WATER DISTRICT**  
**LARUE COUNTY, KENTUCKY**

SOUTH JENKINS ROAD  
 STATION 9+00 TO STATION 19+87



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**NOTES:**  
 ALL PAVED DRIVEWAYS TO BE FREE BORED.  
 ALL GRAVEL DRIVEWAYS TO BE BACKFILLED WITH #57 STONE.

**INSTALL**  
 1-4"x4" M.J. TEE  
 2-4" GATE VALVE  
 1-CONCRETE THRUST BLOCKING  
 (SEE DETAIL)

EXISTING 4" BLOWOFF

EXISTING 4" WATER LINE

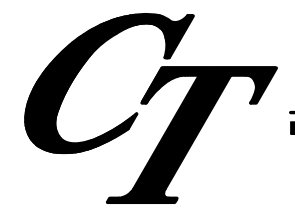
PROPOSED 4" WATER LINE  
 SDR-21, CL. 200

STA. 12+00  
 MATCH LINE SEE SHT. 3

NO.	DATE	REVISIONS	DATE	APPR'D	DATE

PROJECT: 467      DATE: 3/26/2020  
 SCALE: 1" = 50'

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**LCWD 2020 WATER IMPROVEMENTS**  
**LARUE COUNTY WATER DISTRICT**  
**LARUE COUNTY, KENTUCKY**

SOUTH JENKINS ROAD  
 STATION 0+00 TO STATION 13+00

SHEET  
 4  
 OF  
 44



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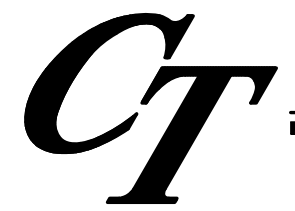


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 ALL PAVED DRIVEWAYS TO BE FREE BORED.  
 ALL GRAVEL DRIVEWAYS TO BE BACKFILLED WITH #57 STONE.

NO.	DATE	REVISIONS	DATE	APPR'D	DATE

PROJECT: 467      DATE: 3/26/2020  
 SCALE: 1" = 50'

DESIGNED BY:	MAB
DRAWN BY:	JH
CHECKED BY:	MAB
RECORD DRAWINGS	


**CANN-TECH, LLC**  
 Engineers · Planners · Managers  
 1100 Glensboro Road  
 Lawrenceburg, KY 40342  
 Phone (502) 859-0907  
 Fax (502) 859-0668

**LCWD 2020 WATER IMPROVEMENTS**  
**LARUE COUNTY WATER DISTRICT**  
**LARUE COUNTY, KENTUCKY**  
 SOUTH JENKINS ROAD  
 STATION 12+00 TO STATION 25+70

SHEET  
5  
OF  
44



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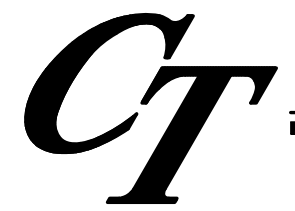
INSTALL  
 1-4" TAPPING SLEEVE  
 1-4" TAPPING VALVE  
 1-4" GATE VALVE  
 1-CONCRETE THRUST BLOCKING  
 (SEE DETAIL)

NOTES:  
 ALL PAVED DRIVEWAYS TO BE FREE BORED.  
 ALL GRAVEL DRIVEWAYS TO BE BACKFILLED  
 WITH #57 STONE.

NO.	DATE	REVISIONS	DATE	APPR'D	DATE

PROJECT: 467      DATE: 3/26/2020  
 SCALE: 1" = 50'

DESIGNED BY: MAB  
 DRAWN BY: JH  
 CHECKED BY: MAB  
 RECORD DRAWINGS



**CANN-TECH, LLC**  
 Engineers · Planners · Managers

**1100 Glensboro Road  
 Lawrenceburg, KY 40342**

**Phone (502) 859-0907  
 Fax (502) 859-0668**

**LCWD 2020 WATER IMPROVEMENTS  
 LARUE COUNTY WATER DISTRICT  
 LARUE COUNTY, KENTUCKY**

CRUSE ROAD  
 STATION 0+00 TO STATION 8+00

SHEET  
 6  
 OF  
 44



U:\LARUE COUNTY WATER DISTRICT\465-LCWD 2020 Project\Drawings\Contract 1 - Water Lines\Brashears Road.dwg, SHT 07, 3/26/2020 10:06:10 AM, 1:1



**NOTES:**  
 ALL PAVED DRIVEWAYS TO BE FREE BORED.  
 ALL GRAVEL DRIVEWAYS TO BE BACKFILLED WITH #57 STONE.

INSTALL  
 1-4"x4" M.J. JTEE  
 2-4" GATE VALVES  
 1-CONCRETE THRUST BLOCKING  
 (SEE DETAIL)

INSTALL  
 1-4" TAPPING SLEEVE  
 1-4" TAPPING VALVE  
 1-CONCRETE THRUST BLOCKING  
 (SEE DETAIL)

EXISTING 4" WATER LINE

70 L.F. OF 8" ROAD BORE  
 70 L.F. OF 8" STEEL CASING PIPE

PROPOSED 4" WATER LINE  
 SDR-21, CL. 200

NO.	DATE	REVISIONS	DATE	APPR'D	DATE

PROJECT: 467      DATE: 3/26/2020  
 SCALE: 1" = 50'

DESIGNED BY: MAB  
 DRAWN BY: JH  
 CHECKED BY: MAB  
 RECORD DRAWINGS

**CT** **CANN-TECH, LLC**  
 Engineers · Planners · Managers

**1100 Glensboro Road**  
**Lawrenceburg, KY 40342**

**Phone (502) 859-0907**  
**Fax (502) 859-0668**

**LCWD 2020 WATER IMPROVEMENTS**  
**LARUE COUNTY WATER DISTRICT**  
**LARUE COUNTY, KENTUCKY**

CRUSE ROAD  
 STATION 8+00 TO STATION 21+00

SHEET  
 7  
 OF  
 44



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**NOTES:**  
 ALL PAVED DRIVEWAYS TO BE FREE BORED.  
 ALL GRAVEL DRIVEWAYS TO BE BACKFILLED WITH #57 STONE.

PROPOSED 4" WATER LINE  
 SDR-21, CL. 200

35 L.F. OF 8" ROAD BORE  
 35 L.F. OF 8" STEEL CASING PIPE

PROPOSED 4" BLOWOFF ASSEMBLY

INSTALL  
 1-4'x4'x4' M.J. TEE  
 3-4' GATE VALVES  
 1-CONCRETE THRUST BLOCKING  
 (SEE DETAIL)

EXISTING 4" WATER LINE

NO.	DATE	REVISIONS	DATE	APPR'D	DATE

PROJECT: 467      DATE: 3/26/2020  
 SCALE: 1" = 50'

DESIGNED BY: MAB  
 DRAWN BY: JH  
 CHECKED BY: MAB  
 RECORD DRAWINGS

**CT** **CANN-TECH, LLC**  
 Engineers · Planners · Managers

1100 Glensboro Road  
 Lawrenceburg, KY 40342

Phone (502) 859-0907  
 Fax (502) 859-0668

**LCWD 2020 WATER IMPROVEMENTS**  
**LARUE COUNTY WATER DISTRICT**  
**LARUE COUNTY, KENTUCKY**

CRUSE ROAD  
 STATION 21+00 TO STATION 33+25

SHEET 8  
 OF 44



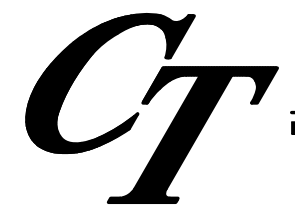
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**NOTES:**  
 ALL PAVED DRIVEWAYS TO BE FREE BORED.  
 ALL GRAVEL DRIVEWAYS TO BE BACKFILLED WITH #57 STONE.

NO.	DATE	REVISIONS	DATE	APPR'D	DATE

PROJECT:	467	DATE:	3/26/2020
SCALE:	1" = 50'		
DESIGNED BY:	MAB		
DRAWN BY:	JH		
CHECKED BY:	MAB		
RECORD DRAWINGS			



**CANN-TECH, LLC**  
 Engineers · Planners · Managers

**1100 Glensboro Road**  
**Lawrenceburg, KY 40342**

**Phone (502) 859-0907**  
**Fax (502) 859-0668**

**LCWD 2020 WATER IMPROVEMENTS**  
**LARUE COUNTY WATER DISTRICT**  
**LARUE COUNTY, KENTUCKY**

MIDDLE CREEK ROAD  
 STATION 0+00 TO STATION 16+00



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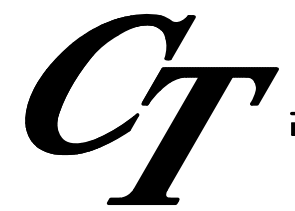


**NOTES:**  
 ALL PAVED DRIVEWAYS TO BE FREE BORED.  
 ALL GRAVEL DRIVEWAYS TO BE BACKFILLED  
 WITH #57 STONE.

NO.	DATE	REVISIONS	DATE	APPR'D	DATE

PROJECT: 467      DATE: 1/9/2020  
 SCALE: 1" = 50'

DESIGNED BY:	MAB
DRAWN BY:	JH
CHECKED BY:	MAB
RECORD DRAWINGS	



## CANN-TECH, LLC

Engineers · Planners · Managers

**1100 Glensboro Road**  
**Lawrenceburg, KY 40342**

**Phone (502) 859-0907**  
**Fax (502) 859-0668**

**LCWD 2020 WATER IMPROVEMENTS**  
**LARUE COUNTY WATER DISTRICT**  
**LARUE COUNTY, KENTUCKY**

MIDDLE CREEK ROAD  
 STATION 16+00 TO STATION 28+00

SHEET  
10  
OF  
44



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**NOTES:**  
 ALL PAVED DRIVEWAYS TO BE FREE BORED.  
 ALL GRAVEL DRIVEWAYS TO BE BACKFILLED WITH #57 STONE.

**INSTALL**  
 1-4"x4"x4" M.J. TEE  
 1-4" GATE VALVE  
 1-4" BLOWOFF ASSEMBLY  
 1-CONCRETE THRUST BLOCKING  
 (SEE DETAIL)

NO.	DATE	REVISIONS	DATE	APPR'D	DATE

PROJECT: 467      DATE: 3/26/2020  
 SCALE: 1" = 50'

DESIGNED BY: MAB  
 DRAWN BY: JH  
 CHECKED BY: MAB  
 RECORD DRAWINGS

**CT** **CANN-TECH, LLC**  
 Engineers · Planners · Managers

**1100 Glensboro Road**  
**Lawrenceburg, KY 40342**

**Phone (502) 859-0907**  
**Fax (502) 859-0668**

**LCWD 2020 WATER IMPROVEMENTS**  
**LARUE COUNTY WATER DISTRICT**  
**LARUE COUNTY, KENTUCKY**

MIDDLE CREEK ROAD  
 STATION 28+00 TO STATION 44+00

SHEET  
 11  
 OF  
 44



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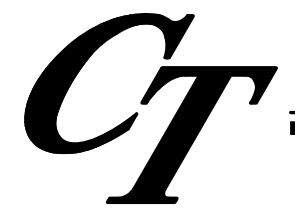
**NOTES:**  
 ALL PAVED DRIVEWAYS TO BE FREE BORED.  
 ALL GRAVEL DRIVEWAYS TO BE BACKFILLED WITH #57 STONE.

INSTALL  
 1-6"x6"x6" M.J. TEE  
 2-6" GATE VALVES  
 1-CONCRETE THRUST BLOCKING

NO.	DATE	REVISIONS	DATE	APPR'D	DATE

PROJECT: 467      DATE: 3/26/2020  
 SCALE: 1" = 50'

DESIGNED BY:	MAB
DRAWN BY:	JH
CHECKED BY:	MAB
RECORD DRAWINGS	



**CANN-TECH, LLC**  
 Engineers · Planners · Managers

**1100 Glensboro Road  
 Lawrenceburg, KY 40342**

**Phone (502) 859-0907  
 Fax (502) 859-0668**

**LCWD 2020 WATER IMPROVEMENTS  
 LARUE COUNTY WATER DISTRICT  
 LARUE COUNTY, KENTUCKY**

SONORA ROAD (KY 84)  
 STATION 0+00.00 TO STATION 13+00

SHEET  
 12  
 OF  
 44



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**NOTES:**  
 ALL PAVED DRIVEWAYS TO BE FREE BORED.  
 ALL GRAVEL DRIVEWAYS TO BE BACKFILLED WITH #57 STONE.

LAY PROPOSED WATER LINE 8' DEEP FROM EXISTING GRADE BETWEEN STA. 23+50 TO STA. 27+00

PROPOSED 6" WATER LINE  
 SDR-21, CL. 200

SONORA RD. (KY 84)

SONORA RD. (KY 84)

RYAN BEVINS &  
 MISTY BEVINS (WF)

RYAN BEVINS &  
 MISTY BEVINS (WF)

NO.	DATE	REVISIONS	DATE	APPR'D	DATE

PROJECT: 467      DATE: 3/26/2020  
 SCALE: 1" = 50'

DESIGNED BY: MAB  
 DRAWN BY: JH  
 CHECKED BY: MAB

RECORD DRAWINGS

**CT** **CANN-TECH, LLC**  
 Engineers · Planners · Managers

**1100 Glensboro Road**  
**Lawrenceburg, KY 40342**

**Phone (502) 859-0907**  
**Fax (502) 859-0668**

**LCWD 2020 WATER IMPROVEMENTS**  
**LARUE COUNTY WATER DISTRICT**  
**LARUE COUNTY, KENTUCKY**

SONORA ROAD (KY 84)  
 STATION 13+00 TO STATION 27+00

SHEET  
 13  
 OF  
 44



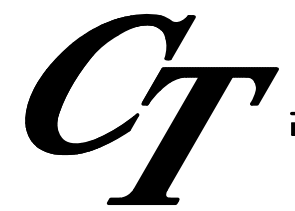
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**NOTES:**  
 ALL PAVED DRIVEWAYS TO BE FREE BORED.  
 ALL GRAVEL DRIVEWAYS TO BE BACKFILLED WITH #57 STONE.  
 THE CONTRACTOR SHALL INSTALL THE CASING PIPE BELOW THE GAS LINES. THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF 18 INCHES OF SEPERATION BETWEEN THE GAS LINES AND CASING PIPE.  
 THE CONTRACTOR SHALL COORDIATE WITH MONUMENT CHEMICAL BEFORE CROSSING THE GAS LINE.  
 NATHAN BEAVIN  
 (270) 668-7361  
 nbeavin@hotmail.com

NO.	DATE	REVISIONS	DATE	APPR'D	DATE

PROJECT: 467      DATE: 3/26/2020  
 SCALE: 1" = 50'  
 DESIGNED BY: MAB  
 DRAWN BY: JH  
 CHECKED BY: MAB  
 RECORD DRAWINGS



**CANN-TECH, LLC**  
 Engineers · Planners · Managers

1100 Glensboro Road  
 Lawrenceburg, KY 40342

Phone (502) 859-0907  
 Fax (502) 859-0668

**LCWD 2020 WATER IMPROVEMENTS**  
**LARUE COUNTY WATER DISTRICT**  
**LARUE COUNTY, KENTUCKY**

SONORA ROAD (KY 84)  
 STATION 27+00 TO STATION 40+00

SHEET  
14  
OF  
44





LAY PROPOSED WATER LINE 10' DEEP FROM EXISTING GRADE BETWEEN STA. 40+00 TO STA. 41+50

STA. 40+00 MATCH LINE SEE SHT. 14

BEVINS FARMS, LLC

40 L.F. OF 12" CREEK CROSSING BY DIRECTIONAL BORE

PROPOSED 6" WATER LINE SDR-21, CL. 200

CONNECT TO EXISTING 6" BLOWOFF ASSEMBLY

EXISTING 6" BLOWOFF

EXISTING 6" WATER LINE

MARIE UNDERWOOD

RES. GAR.

RES.

70 L.F. OF 12" CREEK CROSSING BY DIRECTIONAL BORE

RYAN BEVINS & MISTY BEVINS (WF)

**NOTES:**  
ALL PAVED DRIVEWAYS TO BE FREE BORED.  
ALL GRAVEL DRIVEWAYS TO BE BACKFILLED WITH #57 STONE.

INSTALL  
1-6"x6"x6" M.J. TEE  
1-6" GATE VALVE  
1-6" BLOWOFF ASSEMBLY

SONORA RD. (KY 84)

LISA A. MADDEN

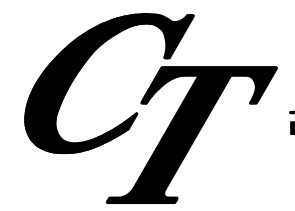
BARN

BARN

BARN

NO.	DATE	REVISIONS	DATE	APPR'D	DATE

PROJECT:	467	DATE:	3/26/2020
SCALE:	1" = 50'		
DESIGNED BY:	MAB		
DRAWN BY:	JH		
CHECKED BY:	MAB		
RECORD DRAWINGS			


**CANN-TECH, LLC**  
 Engineers · Planners · Managers  
 1100 Glensboro Road  
 Lawrenceburg, KY 40342  
 Phone (502) 859-0907  
 Fax (502) 859-0668

**LCWD 2020 WATER IMPROVEMENTS**  
**LARUE COUNTY WATER DISTRICT**  
**LARUE COUNTY, KENTUCKY**  
 SONORA ROAD (KY 84)  
 STATION 40+00 TO STATION 44+44

SHEET	15
OF	44



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NO.	DATE	REVISIONS	DATE	APPR'D	DATE

PROJECT: 467      DATE: 3/26/2020  
 SCALE: 1" = 50'

DESIGNED BY: MAB  
 DRAWN BY: JH  
 CHECKED BY: MAB  
 RECORD DRAWINGS

**CT** **CANN-TECH, LLC**  
 Engineers · Planners · Managers

**1100 Glensboro Road**  
**Lawrenceburg, KY 40342**

**Phone (502) 859-0907**  
**Fax (502) 859-0668**

**LCWD 2020 WATER IMPROVEMENTS**  
**LARUE COUNTY WATER DISTRICT**  
**LARUE COUNTY, KENTUCKY**

GLENDALE ROAD (KY 222)  
 STATION 0+00 TO STATION 12+00

SHEET  
16  
OF  
44



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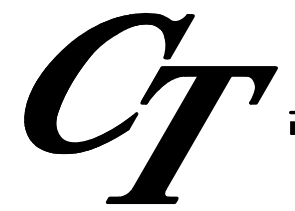


**NOTES:**  
 ALL PAVED DRIVEWAYS TO BE FREE BORED.  
 ALL GRAVEL DRIVEWAYS TO BE BACKFILLED WITH #57 STONE.

NO.	DATE	REVISIONS	DATE	APPR'D	DATE

PROJECT: 467      DATE: 3/26/2020  
 SCALE: 1" = 50'

DESIGNED BY: MAB  
 DRAWN BY: JH  
 CHECKED BY: MAB  
 RECORD DRAWINGS



## CANN-TECH, LLC

Engineers · Planners · Managers

**1100 Gensboro Road  
Lawrenceburg, KY 40342**

**Phone (502) 859-0907  
Fax (502) 859-0668**

**LCWD 2020 WATER IMPROVEMENTS  
 LARUE COUNTY WATER DISTRICT  
 LARUE COUNTY, KENTUCKY**

GLENDALE ROAD (KY 222)  
 STATION 12+00 TO STATION 25+00

SHEET  
17  
OF  
44



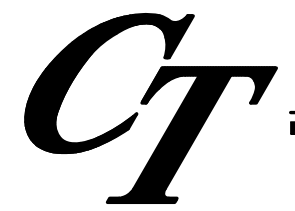
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**NOTES:**  
 ALL PAVED DRIVEWAYS TO BE FREE BORED.  
 ALL GRAVEL DRIVEWAYS TO BE BACKFILLED  
 WITH #57 STONE.

NO.	DATE	REVISIONS	DATE	APPR'D	DATE

PROJECT:	467	DATE:	3/26/2020
SCALE:	1" = 50'		
DESIGNED BY:	MAB		
DRAWN BY:	JH		
CHECKED BY:	MAB		
RECORD DRAWINGS			


**CANN-TECH, LLC**  
 Engineers · Planners · Managers  
**1100 Glensboro Road**  
**Lawrenceburg, KY 40342**  
**Phone (502) 859-0907**  
**Fax (502) 859-0668**

**LCWD 2020 WATER IMPROVEMENTS**  
**LARUE COUNTY WATER DISTRICT**  
**LARUE COUNTY, KENTUCKY**

GLENDALE ROAD (KY 222)  
 STATION 25+00 TO STATION 38+00

SHEET  
 18  
 OF  
 44



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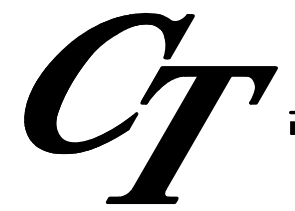


**NOTES:**  
 ALL PAVED DRIVEWAYS TO BE FREE BORED.  
 ALL GRAVEL DRIVEWAYS TO BE BACKFILLED WITH #57 STONE.

NO.	DATE	REVISIONS	DATE	APPR'D	DATE

PROJECT: 467      DATE: 3/26/2020  
 SCALE: 1" = 50'

DESIGNED BY: MAB  
 DRAWN BY: JH  
 CHECKED BY: MAB  
 RECORD DRAWINGS



**CANN-TECH, LLC**  
 Engineers · Planners · Managers

**1100 Glensboro Road  
 Lawrenceburg, KY 40342**

**Phone (502) 859-0907  
 Fax (502) 859-0668**

**LCWD 2020 WATER IMPROVEMENTS  
 LARUE COUNTY WATER DISTRICT  
 LARUE COUNTY, KENTUCKY**

GLENDALE ROAD (KY 222)  
 STATION 38+00 TO STATION 51+00

SHEET  
 19  
 OF  
 44



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**NOTES:**  
 ALL PAVED DRIVEWAYS TO BE FREE BORED.  
 ALL GRAVEL DRIVEWAYS TO BE BACKFILLED WITH #57 STONE.

NO.	DATE	REVISIONS	DATE	APPR'D	DATE

PROJECT: 467      DATE: 3/26/2020  
 SCALE: 1" = 50'

DESIGNED BY: MAB  
 DRAWN BY: JH  
 CHECKED BY: MAB

RECORD DRAWINGS

**CT** **CANN-TECH, LLC**  
 Engineers · Planners · Managers

**1100 Glensboro Road  
 Lawrenceburg, KY 40342**

**Phone (502) 859-0907  
 Fax (502) 859-0668**

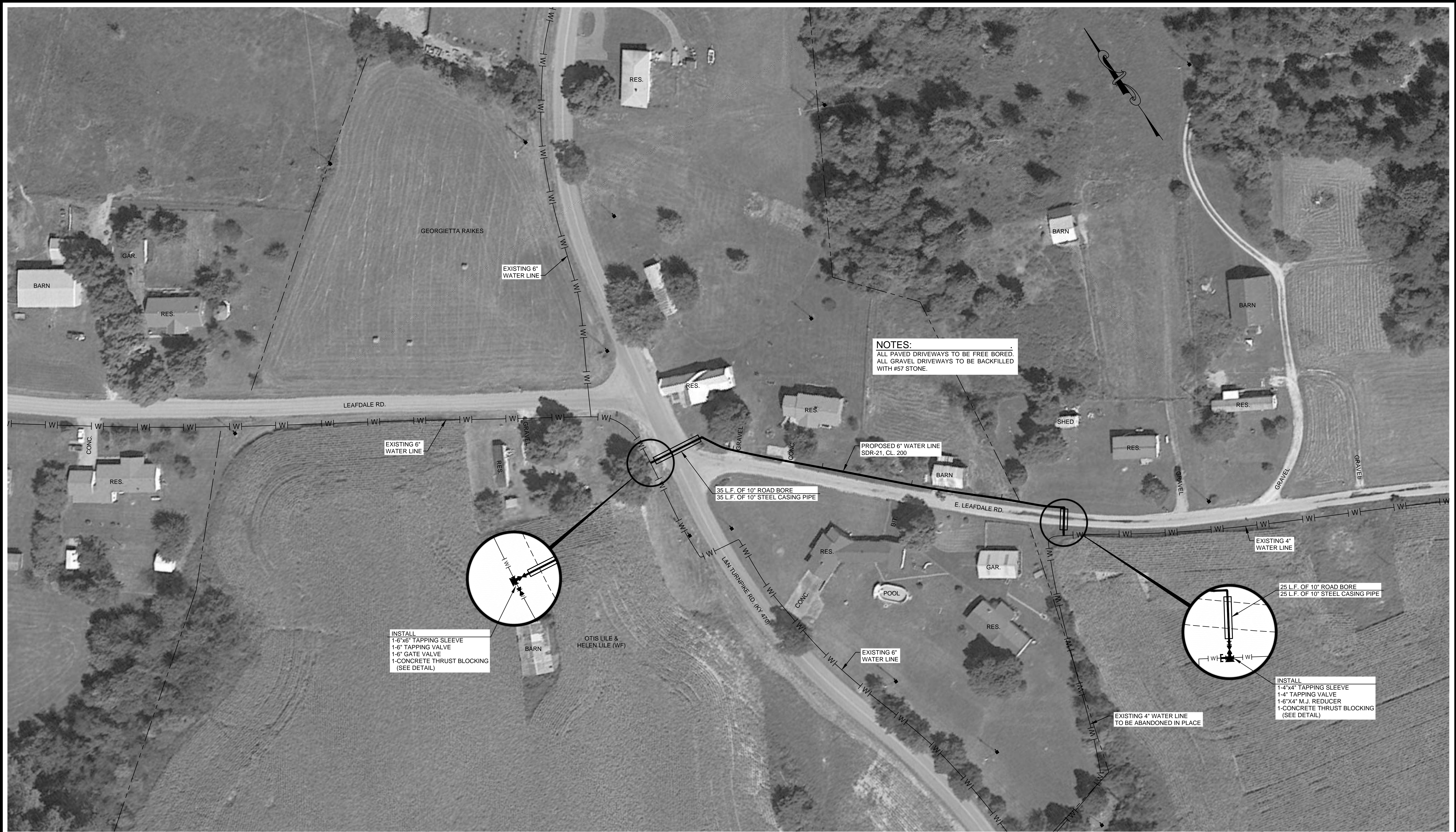
**LCWD 2020 WATER IMPROVEMENTS  
 LARUE COUNTY WATER DISTRICT  
 LARUE COUNTY, KENTUCKY**

GLENDALE ROAD (KY 222)  
 STATION 51+00 TO STATION 59+75

SHEET  
20  
OF  
44



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NO.	DATE	REVISIONS	DATE	APPR'D	DATE

PROJECT: 467      DATE: 3/26/2020  
 SCALE: 1" = 50'

DESIGNED BY: MAB  
 DRAWN BY: JH  
 CHECKED BY: MAB  
 RECORD DRAWINGS

**CT** **CANN-TECH, LLC**  
 Engineers · Planners · Managers

**1100 Glensboro Road  
 Lawrenceburg, KY 40342**

**Phone (502) 859-0907  
 Fax (502) 859-0668**

**LCWD 2020 WATER IMPROVEMENTS  
 LARUE COUNTY WATER DISTRICT  
 LARUE COUNTY, KENTUCKY**

LEAFDALE ROAD  
 STATION 0+00 TO STATION 4+53

SHEET  
 21  
 OF  
 44



U:\LARUE COUNTY WATER DISTRICT\465-LCWD 2020 Project\Drawings\Contract 1 - Water Lines\AIRLINE ROAD.dwg, SHT 22, 3/26/2020 11:25:35 AM, 1:1



**NOTES:**  
 ALL PAVED DRIVEWAYS TO BE FREE BORED.  
 ALL GRAVEL DRIVEWAYS TO BE BACKFILLED WITH #57 STONE.

**INSTALL**  
 1-6"x6"x6" M.J. TEE  
 3-6" GATE VALVES  
 1-CONCRETE THRUST BLOCKING  
 (SEE DETAIL)

NO.	DATE	REVISIONS	DATE	APPR'D	DATE

PROJECT: 467      DATE: 3/26/2020  
 SCALE: 1" = 50'

DESIGNED BY: MAB  
 DRAWN BY: JH  
 CHECKED BY: MAB

RECORD DRAWINGS

**CT** **CANN-TECH, LLC**  
 Engineers · Planners · Managers

**1100 Glensboro Road**  
**Lawrenceburg, KY 40342**

**Phone (502) 859-0907**  
**Fax (502) 859-0668**

**LCWD 2020 WATER IMPROVEMENTS**  
**LARUE COUNTY WATER DISTRICT**  
**LARUE COUNTY, KENTUCKY**

AIRLINE ROAD  
 STATION 0+00 TO STATION 14+00

SHEET  
 22  
 OF  
 44



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**NOTES:**  
 ALL PAVED DRIVEWAYS TO BE FREE BORED.  
 ALL GRAVEL DRIVEWAYS TO BE BACKFILLED WITH #57 STONE.

NO.	DATE	REVISIONS	DATE	APPR'D	DATE

PROJECT: 467      DATE: 3/26/2020  
 SCALE: 1" = 50'

DESIGNED BY: MAB  
 DRAWN BY: JH  
 CHECKED BY: MAB  
 RECORD DRAWINGS

**CT** **CANN-TECH, LLC**  
 Engineers · Planners · Managers

**1100 Glensboro Road**  
**Lawrenceburg, KY 40342**

**Phone (502) 859-0907**  
**Fax (502) 859-0668**

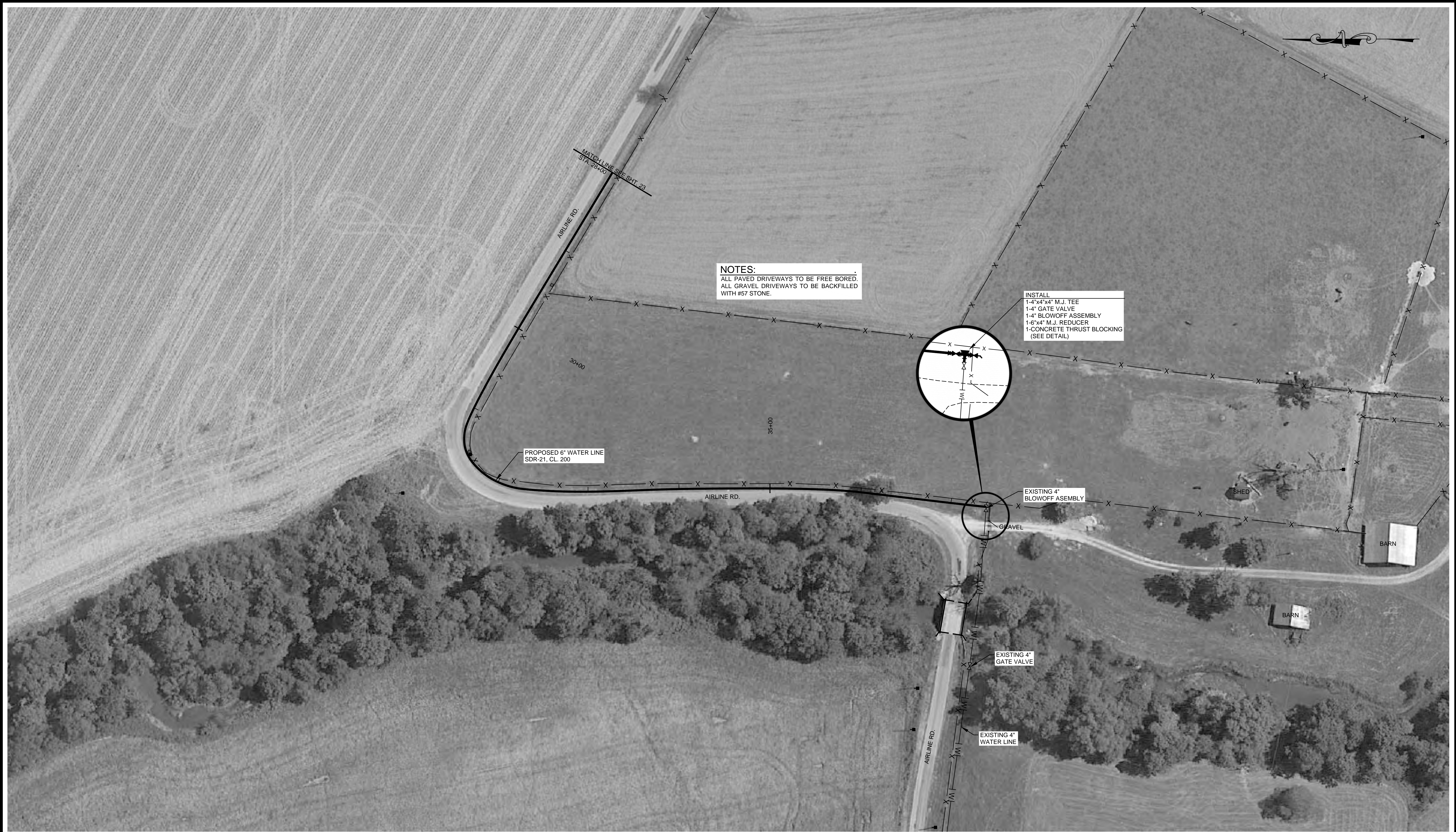
**LCWD 2020 WATER IMPROVEMENTS**  
**LARUE COUNTY WATER DISTRICT**  
**LARUE COUNTY, KENTUCKY**

AIRLINE ROAD  
 STATION 14+00 TO STATION 28+00

SHEET  
 23  
 OF  
 44



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NO.	DATE	REVISIONS	DATE	APPR'D	DATE

PROJECT: 467      DATE: 3/26/2020  
 SCALE: 1" = 50'

DESIGNED BY: MAB  
 DRAWN BY: JH  
 CHECKED BY: MAB

RECORD DRAWINGS



**CANN-TECH, LLC**  
 Engineers · Planners · Managers

1100 Glensboro Road  
 Lawrenceburg, KY 40342

Phone (502) 859-0907  
 Fax (502) 859-0668

**LCWD 2020 WATER IMPROVEMENTS**  
**LARUE COUNTY WATER DISTRICT**  
**LARUE COUNTY, KENTUCKY**

AIRLINE ROAD  
 STATION 28+00 TO STATION 37+40

SHEET  
24  
OF  
44



U:\LARUE COUNTY WATER DISTRICT\465-LCWD 2020 Project\Drawings\Contract 1 - Water Lines\AIRLINE ROAD.dwg, SHT 25, 3/26/2020 11:24:07 AM, 1:1




NO.	DATE	REVISIONS	DATE	APPR'D	DATE

PROJECT: 467      DATE: 3/26/2020  
 SCALE: 1" = 50'

DESIGNED BY: MAB  
 DRAWN BY: JH  
 CHECKED BY: MAB

RECORD DRAWINGS



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Lawrenceburg, KY 40342**

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**LCWD 2020 WATER IMPROVEMENTS  
LARUE COUNTY WATER DISTRICT  
LARUE COUNTY, KENTUCKY**

CAMPBELLVILLE ROAD (KY 210)  
STATION 0+00 TO STATION 13+00

SHEET  
25  
OF  
44




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**NOTES:**  
 ALL PAVED DRIVEWAYS TO BE FREE BORED.  
 ALL GRAVEL DRIVEWAYS TO BE BACKFILLED WITH #57 STONE.

NO.	DATE	REVISIONS	DATE	APPR'D	DATE

PROJECT: 467      DATE: 3/26/2020  
 SCALE: 1" = 50'  
 DESIGNED BY: MAB  
 DRAWN BY: JH  
 CHECKED BY: MAB  
 RECORD DRAWINGS


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**LCWD 2020 WATER IMPROVEMENTS  
 LARUE COUNTY WATER DISTRICT  
 LARUE COUNTY, KENTUCKY**

CAMPBELLVILLE ROAD (KY 210)  
 STATION 13+00 TO STATION 26+00

SHEET  
26  
OF  
44