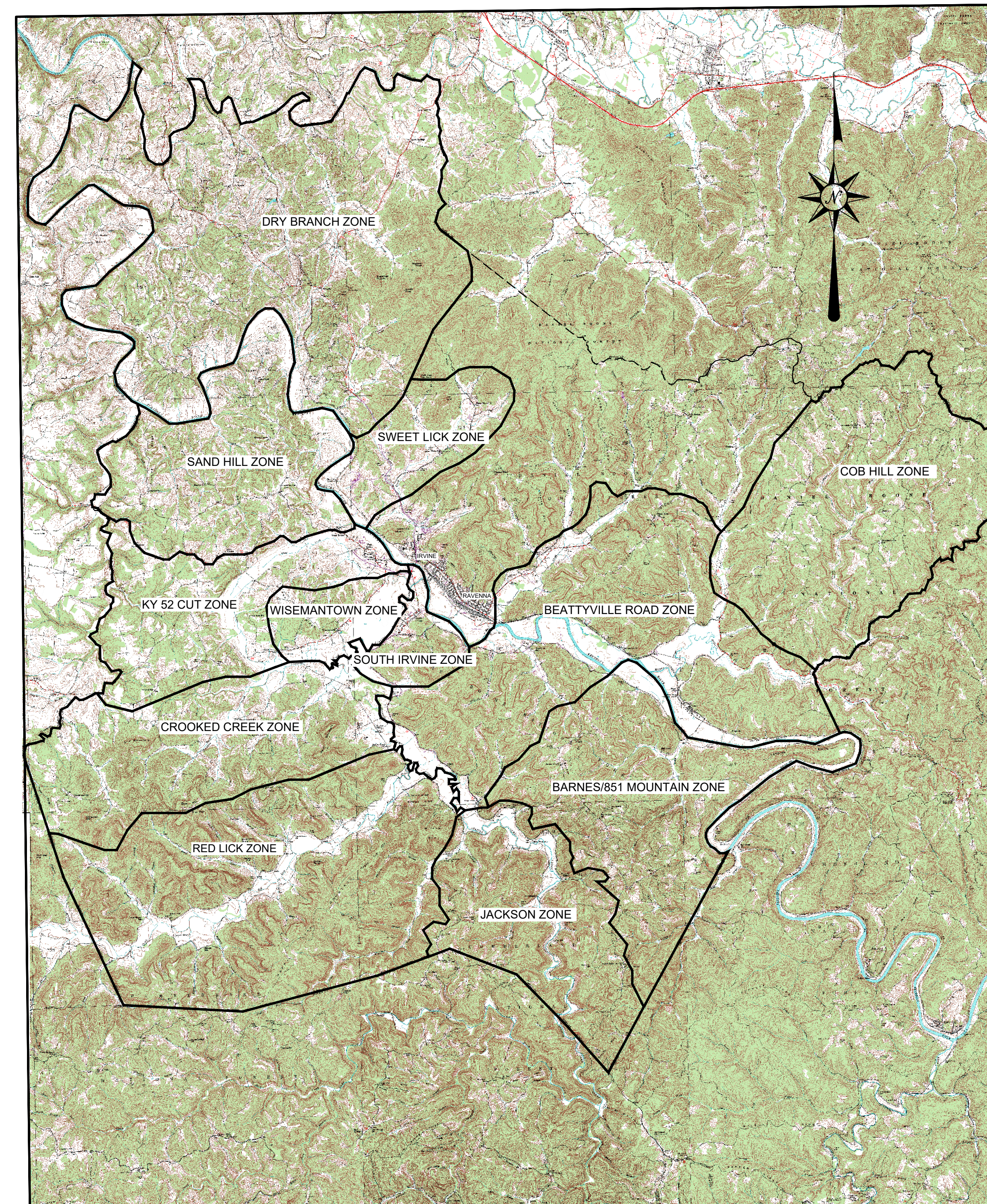


ESTILL COUNTY WATER DISTRICT #1
PHASE II SYSTEM IMPROVEMENTS
ZONE METER & RIVER CROSSING INSTALLATION
ESTILL COUNTY, KENTUCKY

ESTILL COUNTY WATER DISTRICT #1 PHASE II SYSTEM IMPROVEMENTS ZONE METER AND RIVER CROSSING INSTALLATION

ESTILL COUNTY, KENTUCKY
APRIL 2020



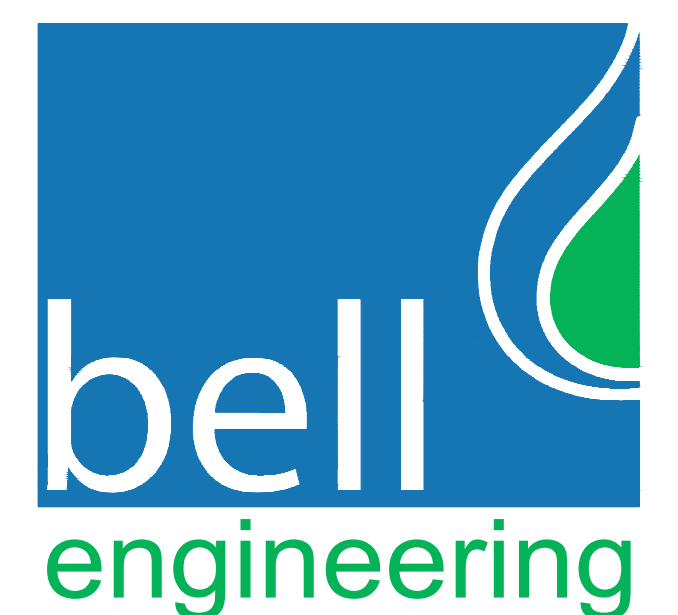
ZONE MAP
NOT TO SCALE

DESCRIPTION	DRAWING INDEX	SHEET NO.
PROJECT MAP, VICINITY MAP, LEGEND & GENERAL NOTES		1
STREAM CROSSINGS		2
CROSSING PROFILES		3
ZONE METERS		4-8
MISCELLANEOUS DETAILS		D1-D2
ELECTRICAL DETAILS		E1-E2

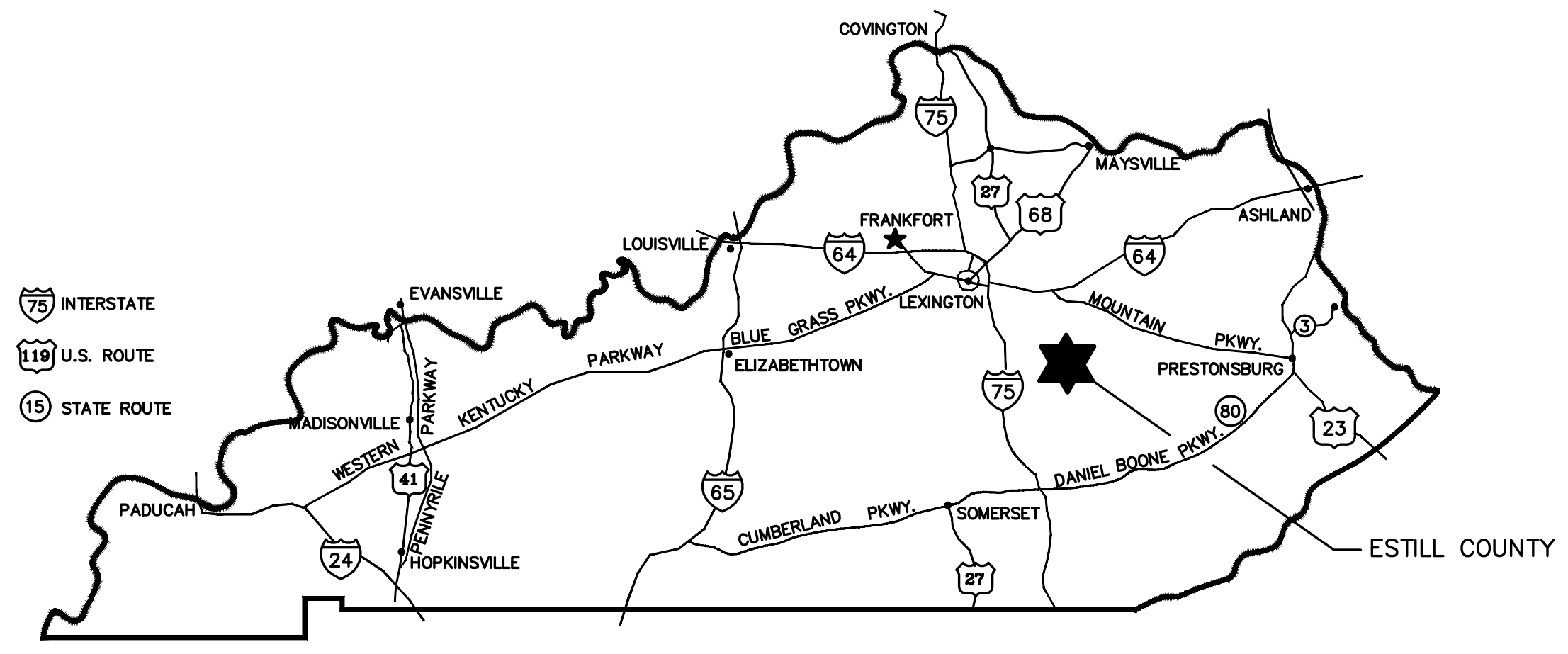
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BID NOTE:
KENTUCKY STATUTES (KRS 367.4901 THROUGH 367.4917) REQUIRE THAT ALL EXCAVATORS PLANNING EXCAVATION OR DEMOLITION WORK SHALL NOTIFY ALL UTILITY COMPANIES IN THE AREA AND/OR AN UNDERGROUND PROTECTION SERVICE SUCH AS BUD (1-800-752-6007 OR 811) AT LEAST TWO (2) WORKING DAYS BEFORE COMMENCING WORK TO ALERT UTILITY COMPANIES IN THE AREA WITH UNDERGROUND FACILITIES OF THE PLANNED EXCAVATION OR DEMOLITION ACTIVITIES.

- CLIENT REVIEW
- BELL (QA) REVIEW
- DIVISION OF WATER REVIEW
- HBC REVIEW
- BID DOCUMENTS
- RECORD DRAWINGS



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lexington, kentucky 40509
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VICINITY MAP
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WATER MAIN LEGEND

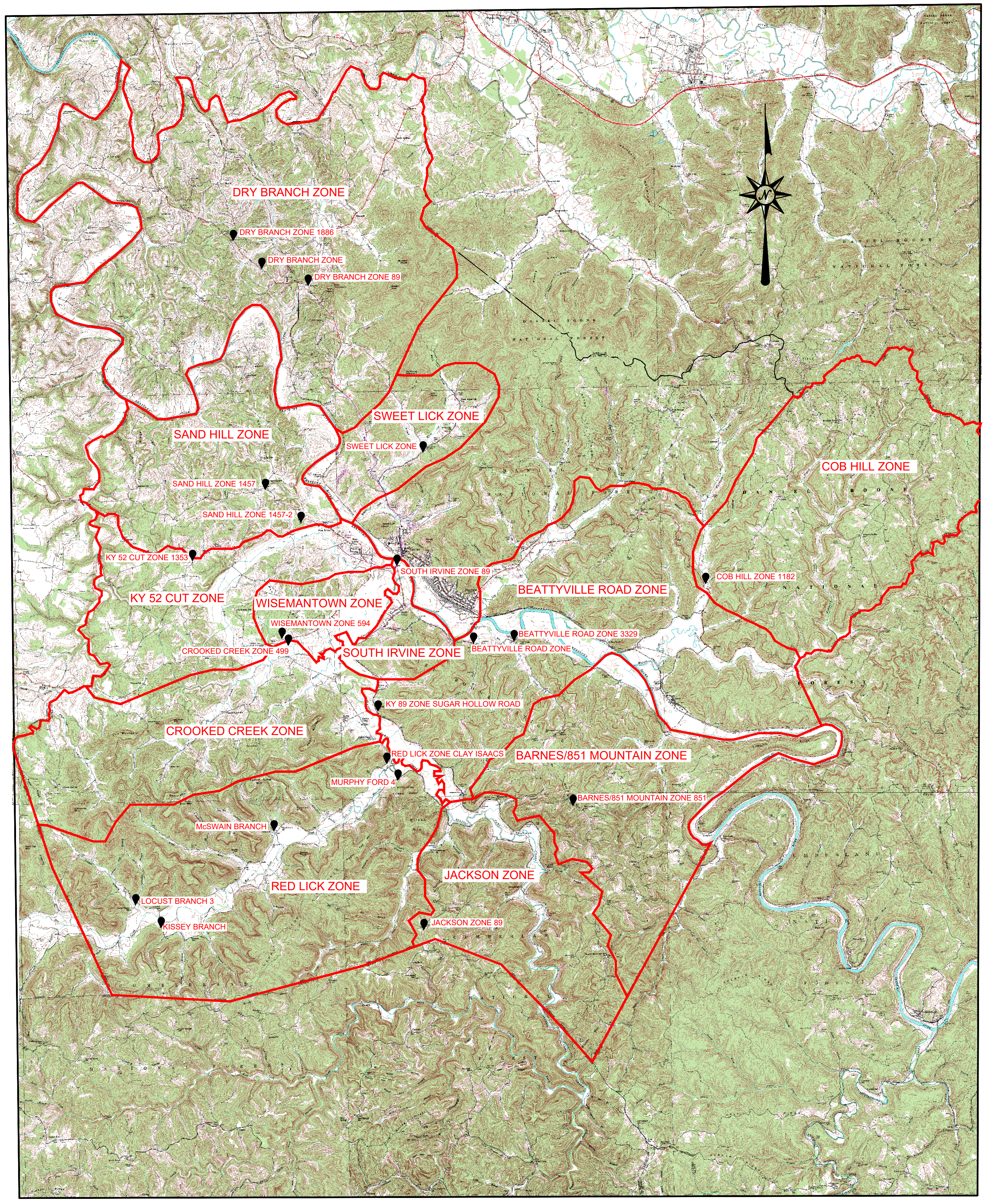
EXISTING	PROPOSED
W—W—W	WATER MAIN
S—S—S	SEWER MAIN
FM—FM—FM	SEWAGE FORCE MAIN
G—G—G	GAS MAIN
(INCLUDED IN UNIT PRICE OF PIPE)	
SLEEVE	II
●	WATER VALVE
⦿	FLUSHING HYDRANT
⊕	TEST METER ASSEMBLY
⊕	WATER LINE MARKER
⊕	WATER METER ASSEMBLY
⊕	WATER METER ASSEMBLY W/ (PRESSURE REDUCER)
⊕	GAS VALVE
⊕	GAS METER ASSEMBLY
⊕	GRINDER STATION W/ CLEANOUT
—	CROSS DRAIN PIPE
—	COVER (CASING) PIPE

KENTUCKY TRANSPORTATION CABINET
DISTRICT 10
GENERAL NOTES:

- EFFORTS HAVE BEEN MADE TO INDICATE LOCATIONS OF SOME 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 CONSTRUCTION DRAWINGS PRIOR TO COMMENCING HIS CONSTRUCTION OPERATIONS. DIMENSIONS OF EXISTING STRUCTURES AND/OR SITE RESTRICTIONS ARE APPROXIMATE. IT IS THE CONTRACTOR'S 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 THE 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 ABOVE 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 THAT WHICH EXISTED PRIOR TO BEING DAMAGED.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL EXISTING UTILITY OWNERS AND HAVE THEM FIELD LOCATE THEIR EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL CONTACT AND OBTAIN THE PERMISSION OF EXISTING UTILITY OWNERS 48 HOURS (MIN.) PRIOR TO ANY CONSTRUCTION ACTIVITY INTERRUPTING OPERATION OF SAID UTILITY.
- UNLESS OTHERWISE NOTED, ALL BURIED PIPES SHALL HAVE 36" (MIN.) COVER AS MEASURED FROM FINISHED GRADE 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 DIMENSIONS, 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.
- PRIOR TO BEGINNING OF WORK ON KENTUCKY TRANSPORTATION CABINET RIGHT-OF-WAY THE CONTRACTOR SHALL HAVE COMPLETED THE KENTUCKY TRANSPORTATION CABINET'S WORK ZONE TRAFFIC CONTROL EMPLOYEE QUALIFICATION PROGRAM. INDIVIDUALS PERFORMING FLAGGING OPERATIONS ON ANY KENTUCKY ROADWAY MUST BE QUALIFIED AND CERTIFIED BY THE KENTUCKY TRANSPORTATION CABINET. INDIVIDUALS WHO PLACE, MONITOR AND MAINTAIN TRAFFIC CONTROL DEVICES ON PUBLIC ROADWAYS IN KENTUCKY SHALL HAVE SUCCESSFULLY COMPLETED THE WORK ZONE TRAFFIC CONTROL TECHNICIAN PROGRAM. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR PREPARING AND IMPLEMENTING THE TRAFFIC CONTROL PLAN. THE INDIVIDUALS RESPONSIBLE FOR THIS WORK SHALL HAVE SUCCESSFULLY COMPLETED THE WORK ZONE TRAFFIC CONTROL SUPERVISOR PROGRAM. FOR MORE INFORMATION ON THE WORK ZONE TRAFFIC CONTROL EMPLOYEE QUALIFICATION PROGRAM AS PRESENTED BY THE TECHNOLOGY TRANSFER PROGRAM, KENTUCKY TRANSPORTATION CENTER, UNIVERSITY OF KENTUCKY CALL THE CENTER'S TOLL FREE NUMBER 1-800-432-0719 OR CONTACT THE DEPARTMENT OF HIGHWAYS, DISTRICT 10, JACKSON, KENTUCKY PHONE (606) 666-8841
- WATER LINES TO BE CONSTRUCTED WITHIN THE KENTUCKY TRANSPORTATION CABINET RIGHT-OF-WAY: TRENCHES SHALL BE OF A DEPTH SUFFICIENT TO PROVIDE A MINIMUM COVER OF 42" FROM THE EXISTING GROUND SURFACE TO THE TOP OF THE PIPE AND BE LOCATED APPROXIMATELY AS SHOWN UNLESS OTHERWISE NOTED. SEE INDIVIDUAL SHEETS FOR DETAILS.
- ALL BORES UNDER STATE HIGHWAYS RIGHT-OF-WAY: SHALL BE A MINIMUM OF 42" DEPTH UNDER BOTTOM OF DITCH LINE TO TOP OF PROPOSED BORE AND/OR CASING PIPE ON BOTH SIDES OF THE HIGHWAY.
- ROCK BLASTING: THERE SHALL BE NO BLASTING WITHIN STATE RIGHT-OF-WAY WITHOUT WRITTEN CONSENT FROM THE KENTUCKY TRANSPORTATION CABINET.
- PROTECTION OF EXISTING PAVING: CARE SHALL BE TAKEN BY THE CONTRACTOR TO AVOID CRACKING OR BREAKING OF THE BITUMINOUS PAVING. ALL DAMAGE TO THE EXISTING PAVING CAUSED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER. PAVING PROTECTION SHALL BE ACCOMPLISHED BY THE USE OF RUBBER AND STREET PADDED MACHINERY OR OTHER APPROVED EQUIPMENT WELL SUITED FOR THIS TYPE OF CONSTRUCTION.
- BANK AND DITCH PROTECTION EXCAVATION: DURING CONSTRUCTION ALL EMBANKMENTS, RETILLS AND EXCAVATIONS SHALL BE KEPT SHARPED AND DRAINED BY THE CONTRACTOR. DITCHES AND DRAINS ALONG THE HIGHWAYS SHALL BE MAINTAINED IN SUCH A MANNER AS TO DRAIN EFFECTIVELY AT ALL TIMES.
- PRIVATE ENTRANCE ROAD: ALL ROADWAYS AND DRIVEWAYS WITHIN THE WORK LIMITS OF STATE RIGHT-OF-WAYS SHALL BE REFILLED TO THE NATURAL SURFACE OF THE GROUND WITH APPROVED MATERIAL. THE MATERIAL SHALL BE PLACED AND COMPACTED TO A SMOOTH SURFACE SUITABLE FOR TRAFFIC. THE CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR MAINTAINING THESE ROADWAYS UNTIL THE RESTORATION IS APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL NOTE THAT ALL PRIVATE BUSINESS AND RESIDENTS ALONG THE ROUTE OF THE PROPOSED WATER MAIN MUST HAVE ACCESS TO THEIR PROPERTIES AT ALL TIMES DURING CONSTRUCTION.
- PROTECTION OF EXISTING DRAINAGE CULVERTS: AT LOCATIONS WHERE THE PROPOSED WATER MAIN IS PARALLEL WITH OR CROSSING AN EXISTING STORM SEWER, THE COST OF RELAYING EXISTING CULVERT PIPES OR THE EXTRA DEPTH REQUIRED TO AVOID THE EXISTING CULVERT IS CONSIDERED INCIDENTAL TO THE CONSTRUCTION AND IS NOT A PAY ITEM.
- SOME EXISTING UTILITIES HAVE NOT BEEN SHOWN: THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE REPRESENTATIVES OF THE VARIOUS UTILITIES WHEN WORKING NEAR ANY EXISTING UTILITY. NO ADDITIONAL PAYMENT TO THE CONTRACTOR WILL BE MADE FOR EXTRA DEPTH REQUIRED TO AVOID ANY EXISTING UTILITY.

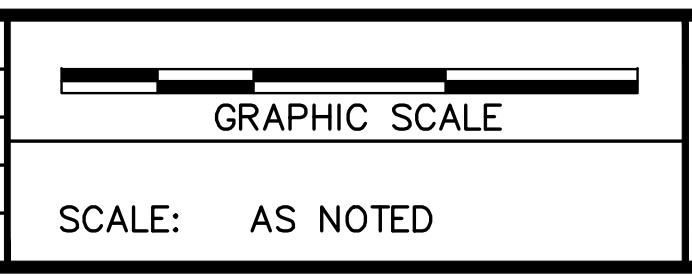
GENERAL NOTES:

- MINIMUM COVER OVER WATER PIPE TO BE 42" IN HIGHWAY RIGHT-OF-WAY ONLY. 36" OF COVER WILL BE MAINTAINED IN ALL OTHER AREAS UNLESS OTHERWISE NOTED.
- MINIMUM COVER OVER VALVE NUT TO BE 12" (NO PAYMENT FOR EXTRA DEPTH TRENCH). MAXIMUM COVER OVER VALVE NUTS TO BE 30" (NO EXTRA PAYMENT FOR REQUIRED EXTENSIONS).
- CONCRETE BLOCKING OF FITTINGS REQUIRED AT NO EXTRA COST.
- THE CONTRACTOR WILL HAVE THE OPTION OF USING FITTINGS OR EXTRA DEPTH TRENCHING AT ALL LOCATIONS WHERE VERTICAL BENDS ARE SHOWN. EITHER METHOD WILL BE AT NO EXTRA COST ABOVE THAT BID FOR FURNISHING, TRENCHING, LAYING AND BACKFILLING PIPE AND FITTINGS, AND WILL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
- INSTALL NEW MAIN UNDER EXISTING WATER LINES AND GAS LINES, EXCEPT AS OTHERWISE NOTED OR DETERMINED IN THE FIELD. (NO PAYMENT FOR EXTRA DEPTH TRENCH.)
- ANY SALVAGED MATERIALS WHICH HAVE NOT BEEN SPECIFIED TO BE REUSED WILL BE REMOVED FROM THE JOB SITE BY THE CONTRACTOR AND PLACED AT AN OWNER DESIGNATED AREA AT NO EXTRA COST.
- DISTANCES SHOWN ALONG THE PIPELINE ARE HORIZONTAL DISTANCES (NOT SLOPE DISTANCES). PAYMENT FOR PIPE WILL BE FOR LENGTHS ACTUALLY INSTALLED AND MEASURED ALONG THE GROUND SURFACE IN THE FIELD. COUNTING INDIVIDUAL PIPES INSTALLED WILL NOT BE ALLOWED. LENGTHS AND QUANTITIES WILL BE AGREED ON DAILY BY THE RPR & CONTRACTOR.
- DIRECTIONAL BORING: STATIONS SHOWN FOR DIRECTIONAL BORES ARE APPROXIMATE MINIMUM HORIZONTAL DISTANCES. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING VERTICAL AND HORIZONTAL DISTANCES FOR TOTAL BORE LENGTH. CONTRACTOR MAY NEED TO LENGTHEN THE DIRECTIONAL BORES TO MEET REQUIRED APPROACH AND DEPARTURE ANGLES OF EQUIPMENT BEING USED AT NO ADDITIONAL COST TO THE OWNER. EACH BORE SHALL INCLUDE TRANSITION COUPLINGS, BUTT FUSED PER DETAIL ALL OF WHICH SHALL BE INCLUDED IN CONTRACTOR'S LUMP SUM BID FOR EACH DIRECTIONAL BORE.
- WATER LINE MARKERS WILL BE LOCATED AS DIRECTED BY THE ENGINEER.
- TUNNELING UNDER SIDEWALKS, CURBS, ETC., WHERE POSSIBLE, WILL BE REQUIRED AT NO EXTRA COST OVER THAT FOR FURNISHING AND LAYING PIPE.
- ALL TIE-IN LOCATIONS WILL BE UNCOVERED PRIOR TO CONSTRUCTION TO MAINTAIN PROPER ALIGNMENT AND ELEVATION OF NEW CONNECTIONS.
- CONTRACTOR WILL INVENTORY REQUIRED MATERIALS, TRENCH DEWATERING EQUIPMENT, AND ASSEMBLE IF NECESSARY ALL REQUIRED FITTINGS PRIOR TO CUT-INS OR TIE-INS TO INSURE MINIMUM DOWN TIME FOR CONNECTION.
- SURFACE DRAINAGE WILL BE MAINTAINED ON A DAY-BY-DAY BASIS.
- THE CONTRACTOR WILL BE REQUIRED TO DISPOSE OF ALL EXCESS EXCAVATED MATERIAL FROM WATER MAIN AND SERVICE LINE CONSTRUCTION AT NO EXTRA COST.
- LOCATIONS SHOWN FOR EXISTING UTILITIES ARE APPROXIMATE ONLY. EXACT LOCATIONS MUST BE DETERMINED BY THE CONTRACTOR BEFORE EXCAVATION FOR NEW FACILITIES. OTHER UTILITIES MAY EXIST WHICH ARE NOT SHOWN. THE CONTRACTOR WILL INVESTIGATE ALL AREAS FOR THE PRESENCE OF EXISTING UTILITIES PRIOR TO ANY EXCAVATION.
- MAINTAIN 10 FT. SEPARATION BETWEEN WATER MAINS AND SEWER MAINS WHEN LOCATED PARALLEL TO EACH OTHER, AND 18 INCHES VERTICAL SEPARATION AT WATER MAIN AND SEWER CROSSINGS.
- ALL DUCTILE IRON PIPE TO BE CLASS 350.
- ALL DUCTILE IRON RESTRAINED JOINT (D.I.R.J.) PIPE TO BE CLASS 350.
- ALL PVC PIPE TO BE C900, DR14 UNLESS OTHERWISE SHOWN OR NOTED.
- DURING CONSTRUCTION OF STREAM CROSSINGS, NO MATERIAL MAY BE PLACED IN THE STREAM OR IN THE FLOOD PLAIN OF THE STREAM TO FORM CONSTRUCTION PADS, COFFER DAMS, OR ACCESS ROADS.
- CONTRACTOR TO SUBMIT DETAIL OF ANY OVER-BENDS OR UNDERBENDS TO THE ENGINEER FOR REVIEW IF WARRANTED BY ACTUAL FIELD CONDITIONS. ANY EXTRA ALL-THREAD RODS, NUTS, WASHERS OR CONCRETE REQUIRED TO BE AT NO ADDITIONAL COST. (TYPICAL ALL LOCATIONS)



PROJECT MAP
NOT TO SCALE

DESIGNER	BAS	DATE	BY	REVISION
DRAWN	DMB			
CHECKED	RAB			
APPROVED	SHC			



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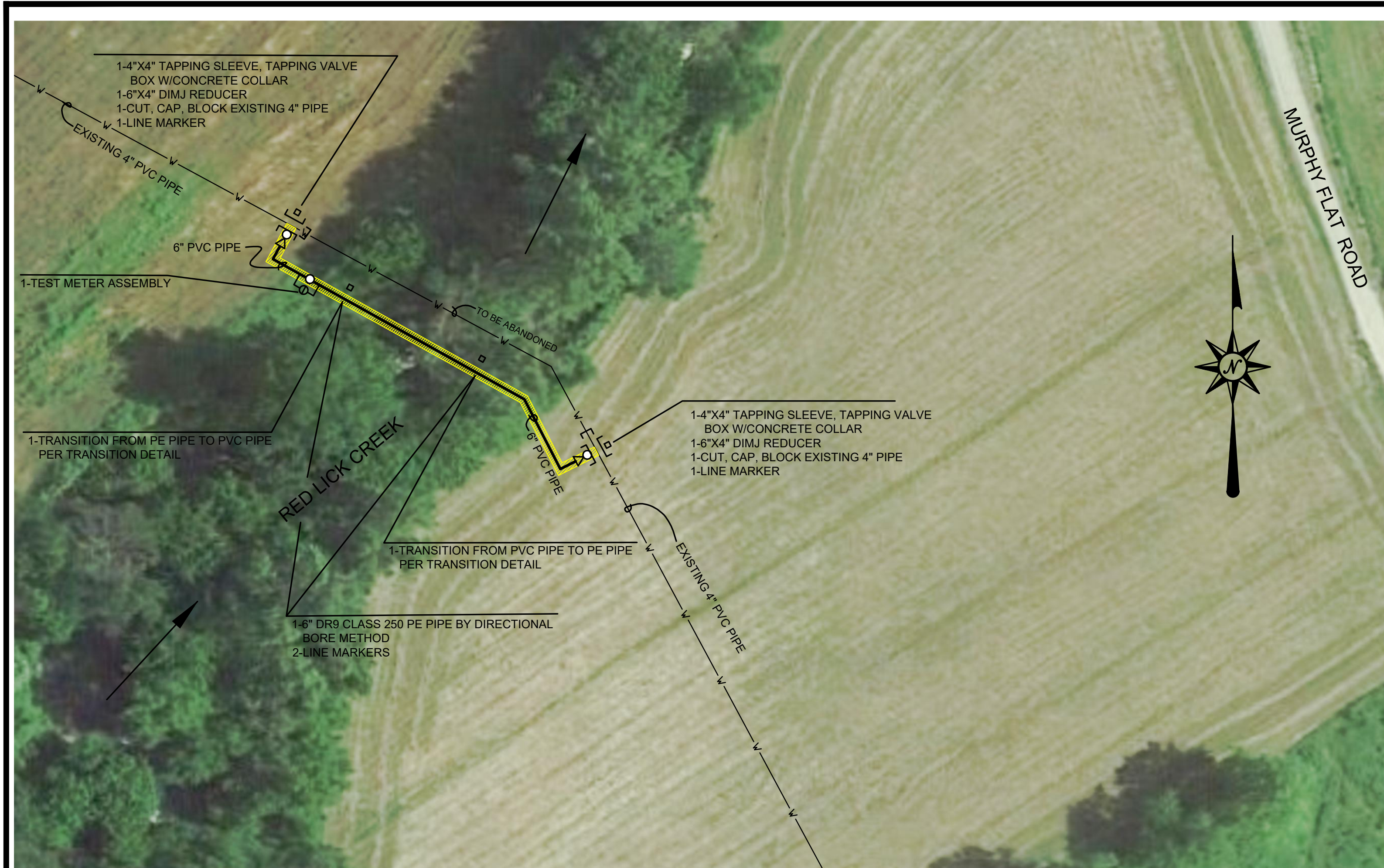
6/5/2020

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PHASE 11 SYSTEM IMPROVEMENTS
ZONE METER & RIVER CROSSING INSTALLATION
ESTILL COUNTY WATER DISTRICT #1
ESTILL COUNTY, KENTUCKY

PROJECT MAP, VICINITY MAP,
LEGEND AND
GENERAL NOTES

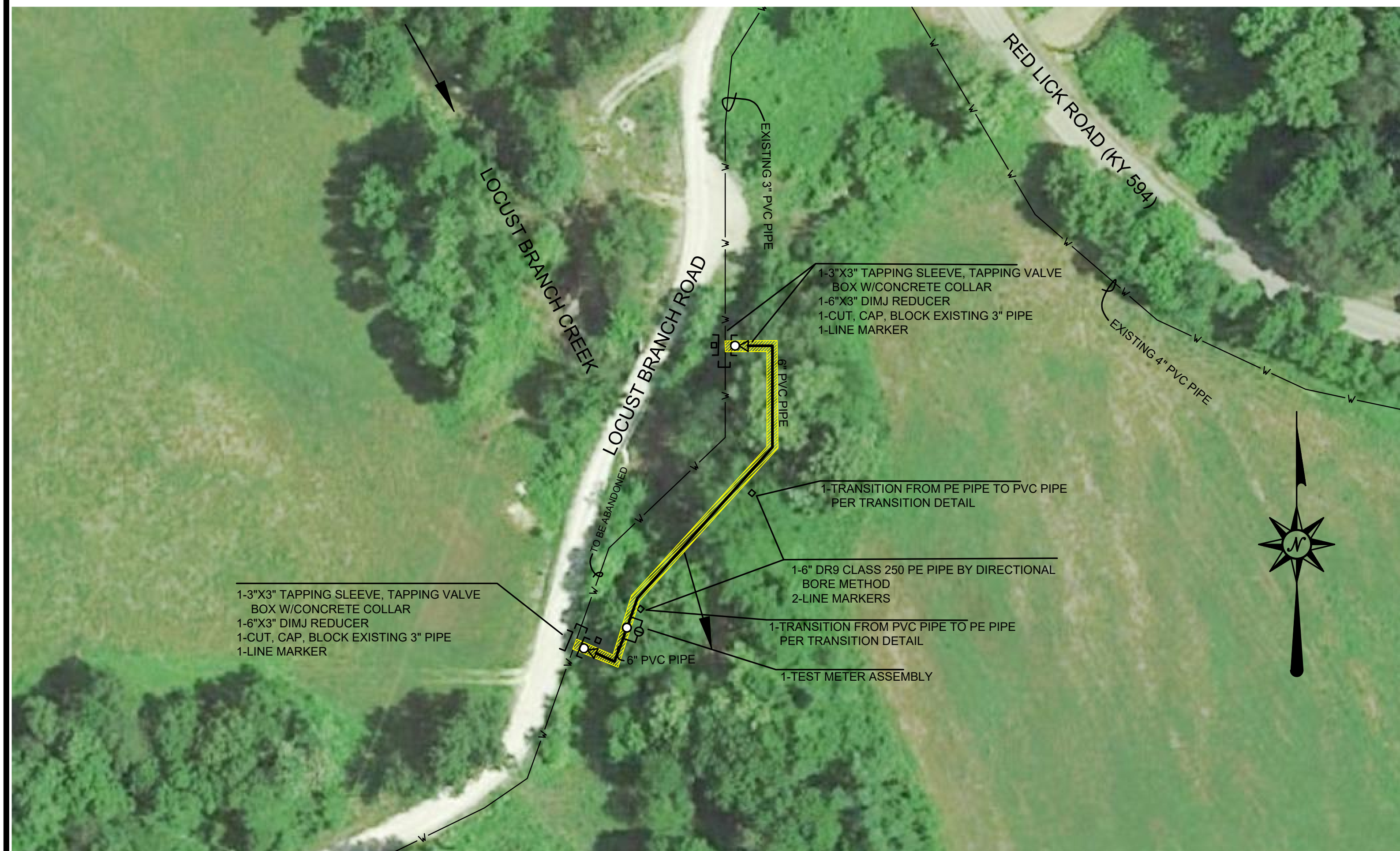
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CONTRACT NO.	371-20-01
DATE	APRIL 2020
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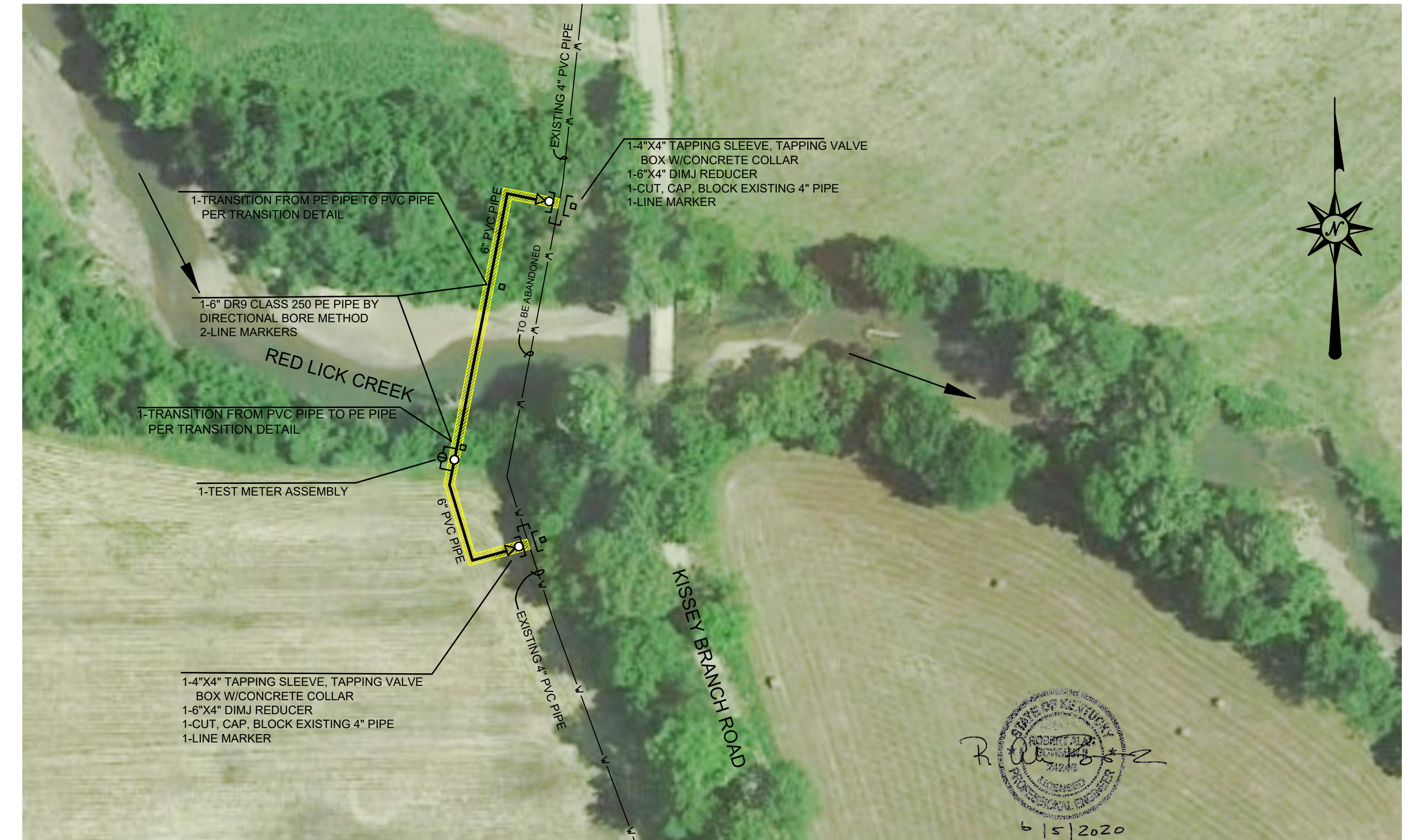
MURPHY FORD 4
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McSWAIN BRANCH 3
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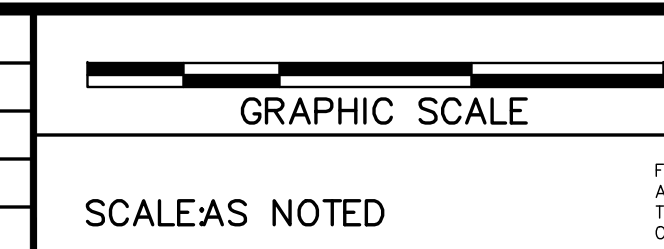


LOCUST BRANCH 3
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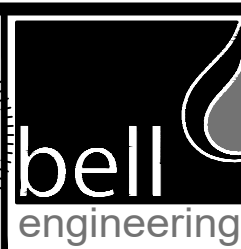
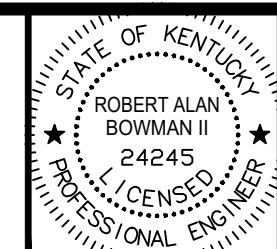


KISSEY BRANCH
SCALE: 1"=50'

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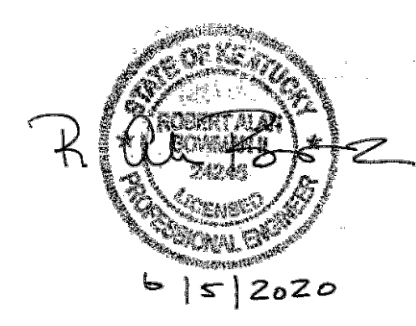
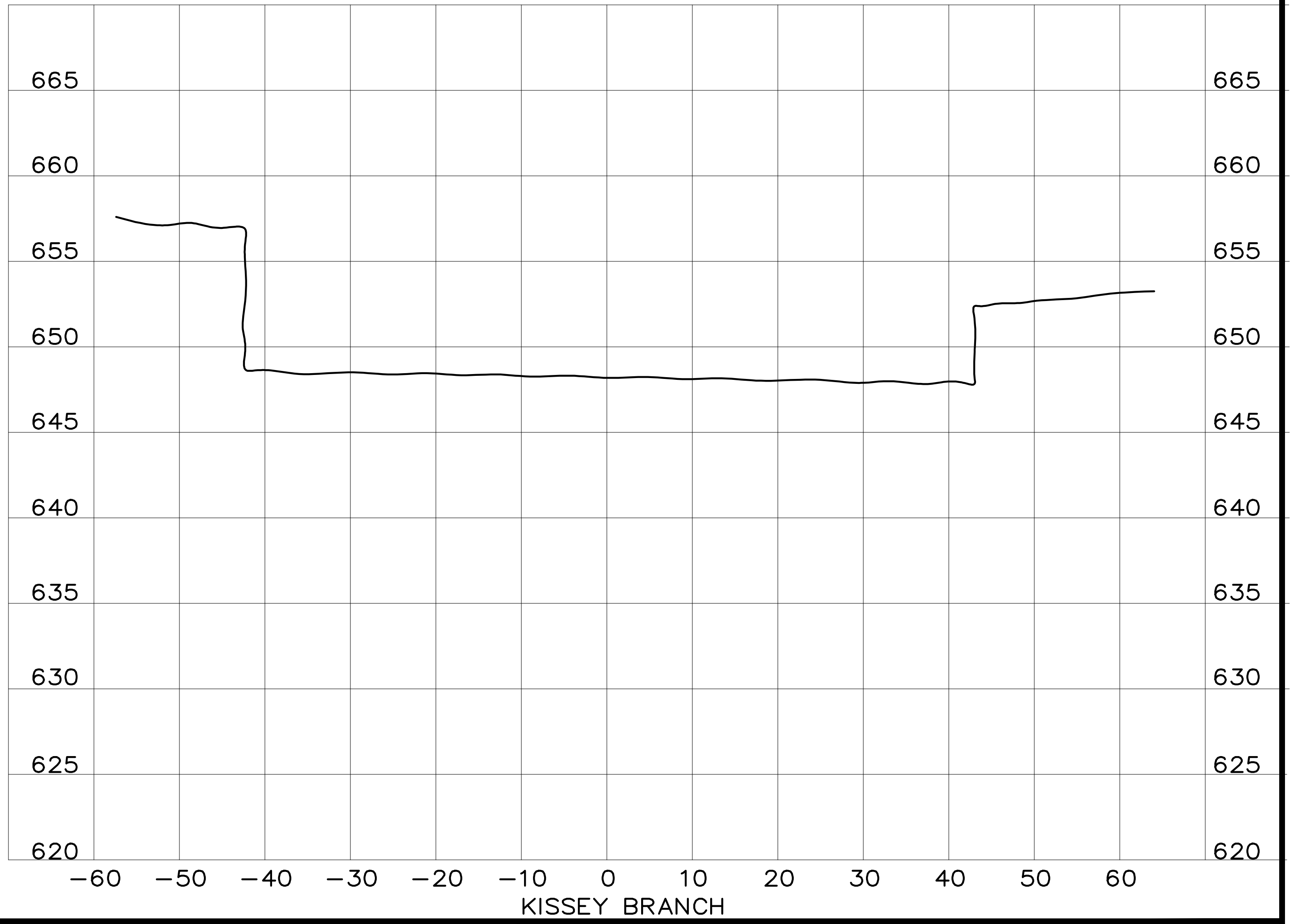
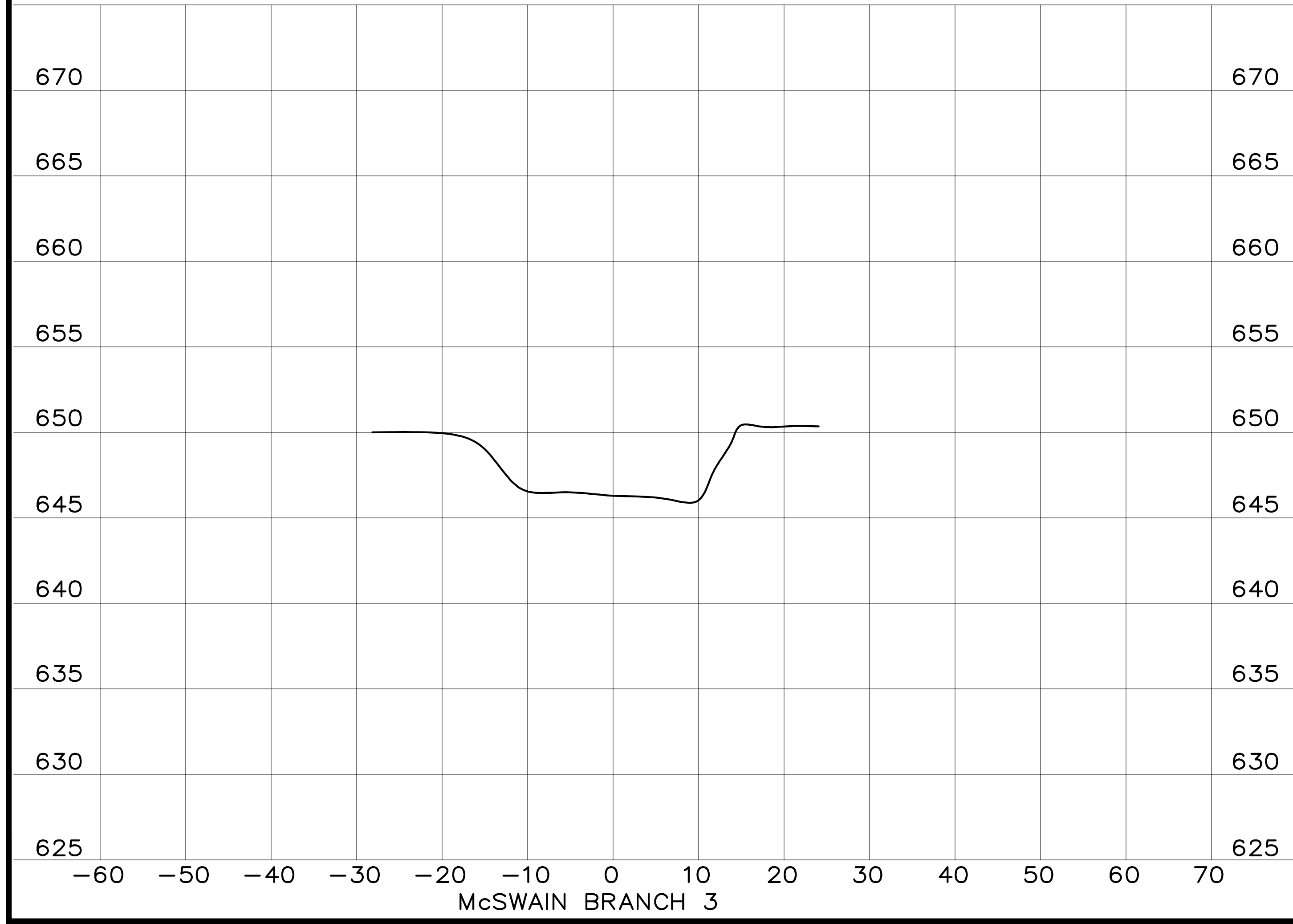
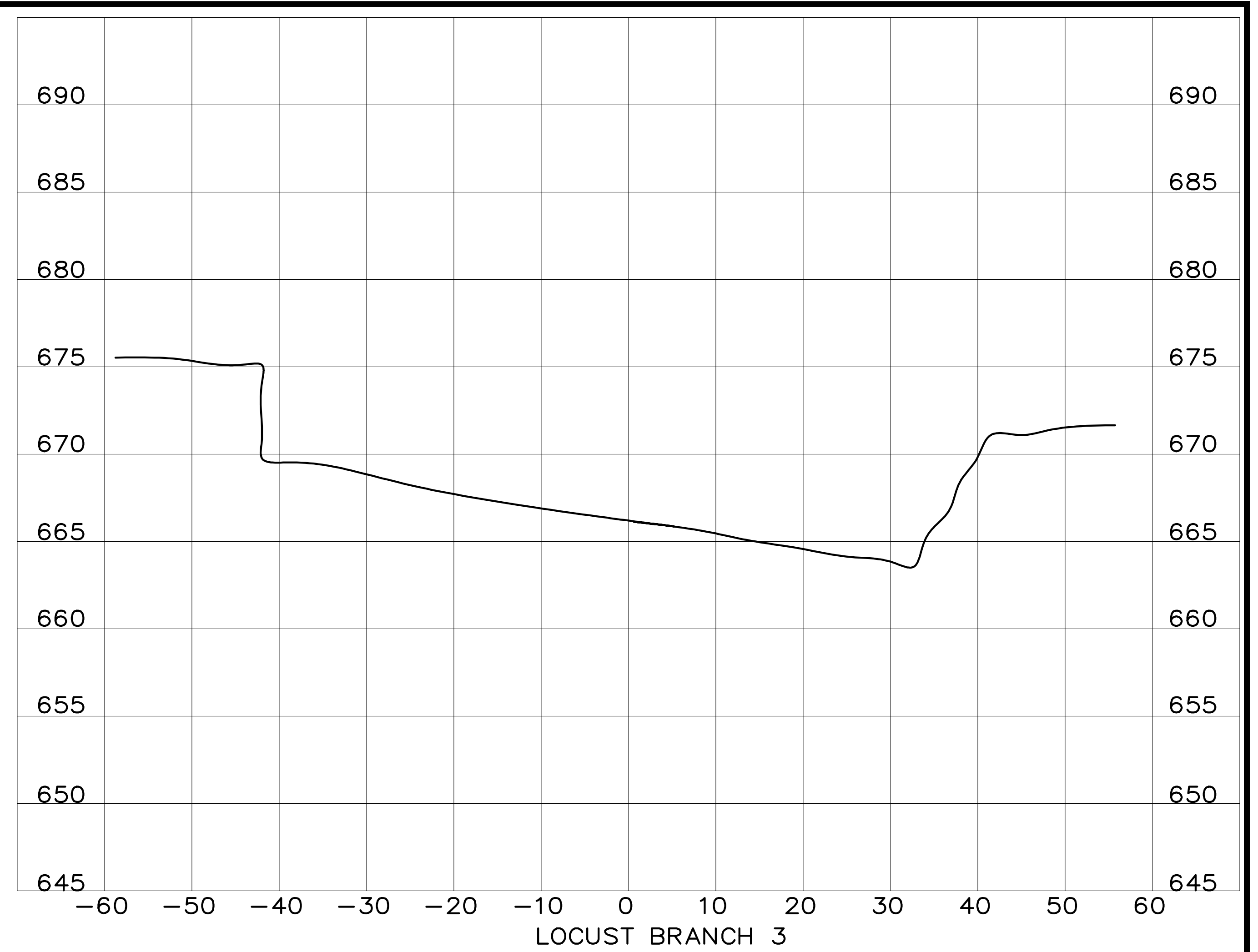
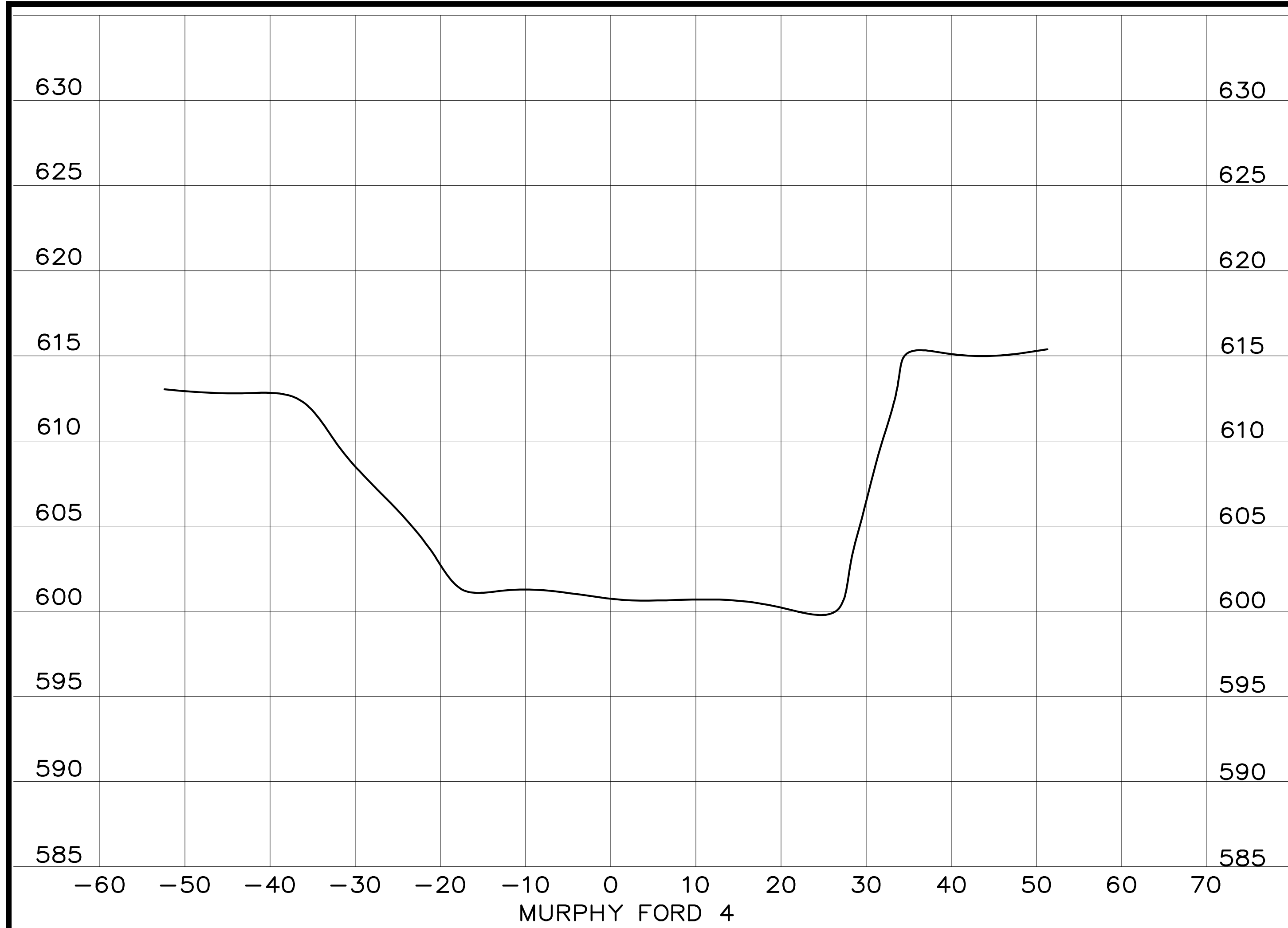


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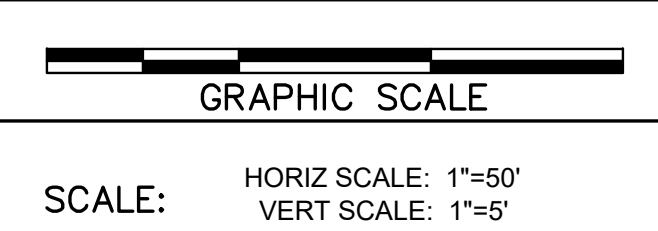
PHASE 11 SYSTEM IMPROVEMENTS
ZONE METER & RIVER CROSSING INSTALLATION
ESTILL COUNTY WATER DISTRICT #1
ESTILL COUNTY, KENTUCKY

STREAM CROSSINGS

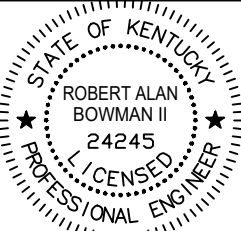
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CONTRACT NO.	371-20-01
DATE	APRIL 2020
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PHASE 11 SYSTEM IMPROVEMENTS
 ZONE WATER & RIVER CROSSING INSTALLATION
 ESTILL COUNTY WATER DISTRICT #1
 ESTILL COUNTY, KENTUCKY

CROSSING PROFILES

DIVISION	-
CONTRACT NO.	371-20-01
DATE	APRIL 2020
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KY 89 /KY 1886 SCALE: 1"=20'



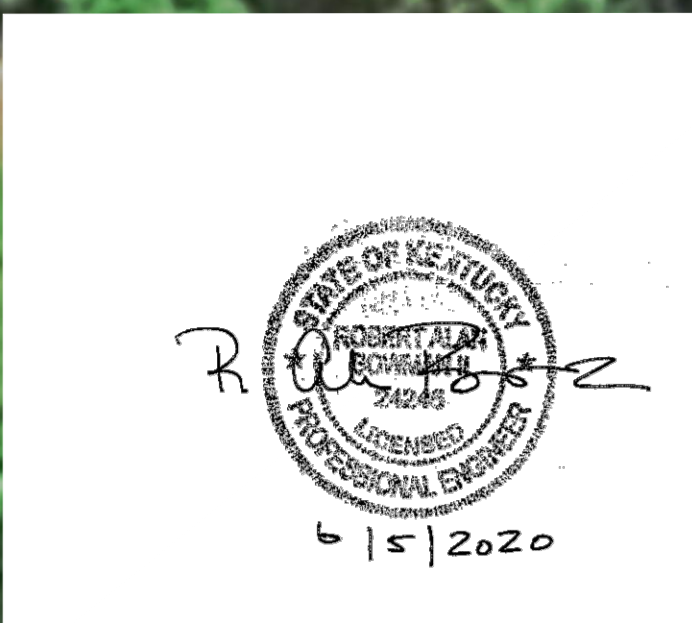
KY 89 (IVORY HILL PUMP STATION) SCALE: 1"=20'



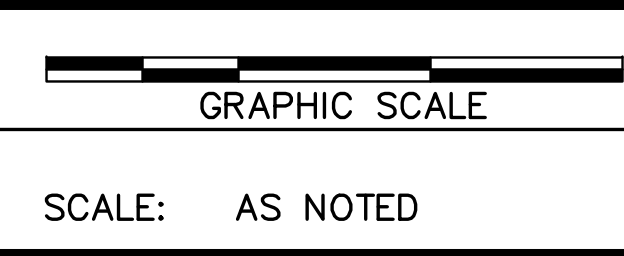
SUGAR HOLLOW ROAD SCALE: 1"=20'



KY 89/KY82 SCALE: 1"=20'



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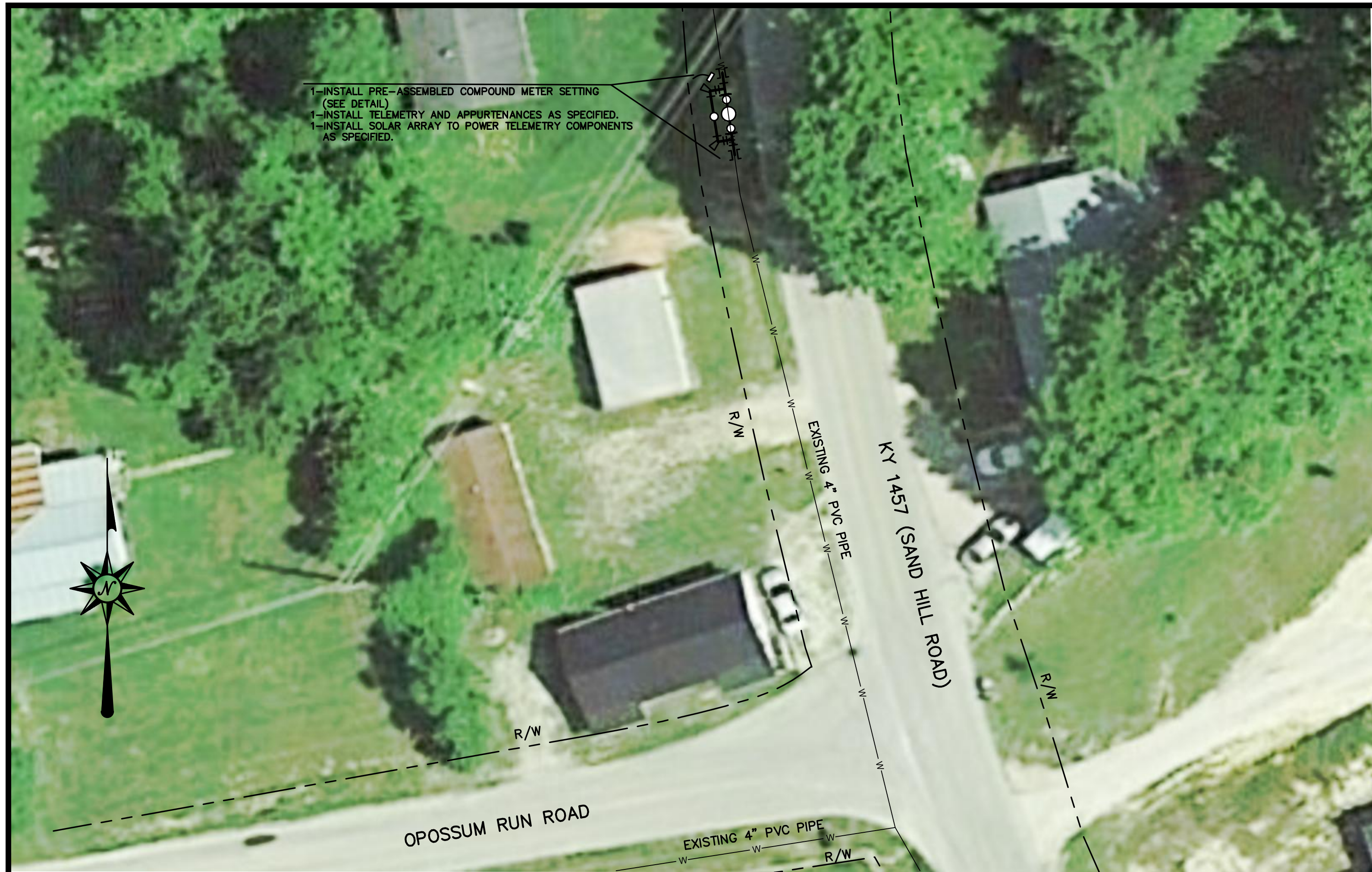
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PHASE 11 SYSTEM IMPROVEMENTS
 ZONE METER & RIVER CROSSING INSTALLATION
 ESTILL COUNTY WATER DISTRICT #1
 IRVINE, KENTUCKY

ZONE METERS
 DRY BRANCH ZONE,
 AND KY 89 ZONE

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CONTRACT NO.	371-20-01
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KY 1457/OPOSSUM RUN ROAD SCALE: 1"=20'



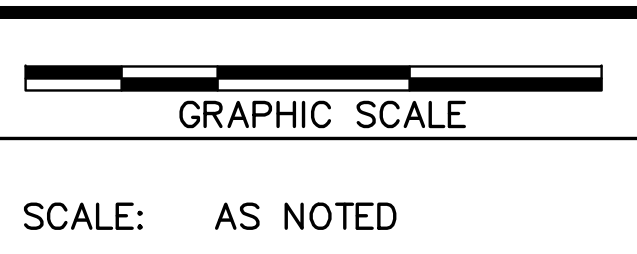
KY 1457 (SAND HILL PUMP STATION) SCALE: 1"=20'



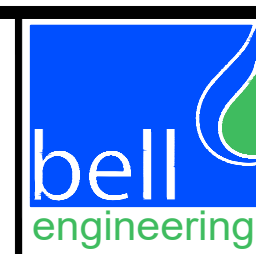
KY 52/KY1353 SCALE: 1"=20'

R. Schaefer

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PHASE 11 SYSTEM IMPROVEMENTS
 ZONE METER & RIVER CROSSING INSTALLATION
 ESTILL COUNTY WATER DISTRICT #1
 IRVINE, KENTUCKY

ZONE METERS
 SAND HILL ZONE
 AND
 KY 52 ZONE

DIVISION	-
CONTRACT NO.	371-20-01
DATE	APRIL 2020
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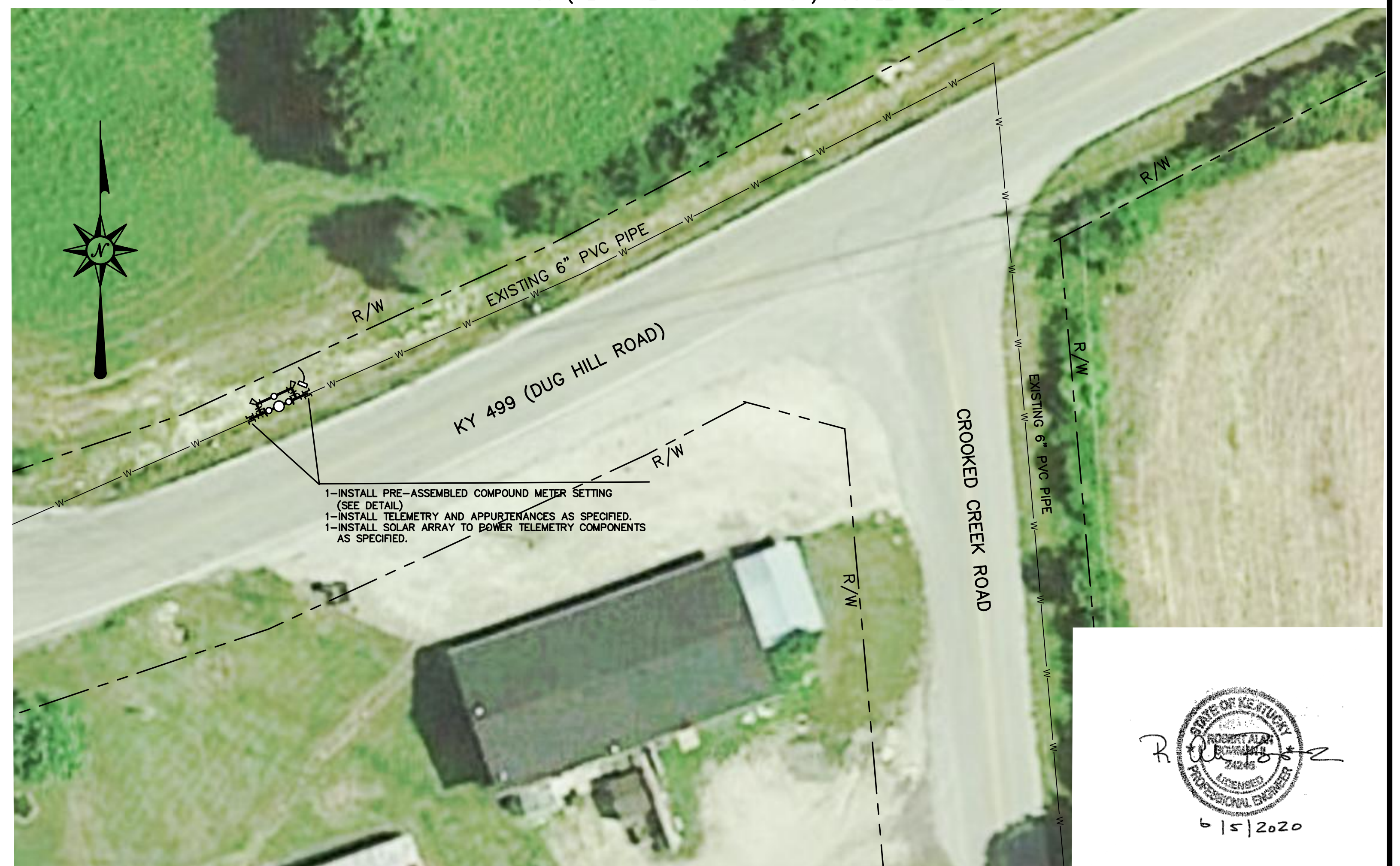
SWEET LICK ROAD SCALE: 1"=20'



KY 89 (NEW RIVER PUMP STATION) SCALE: 1"=20'



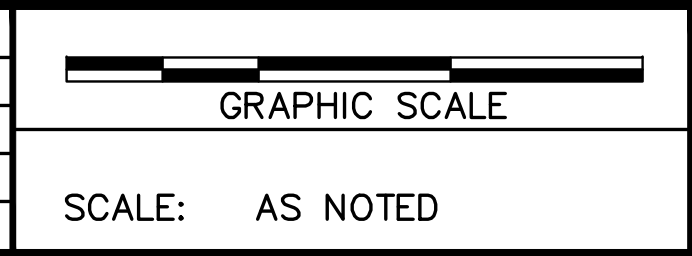
KY 594 (PEA RIDGE PUMP STATION) SCALE: 1"=20'



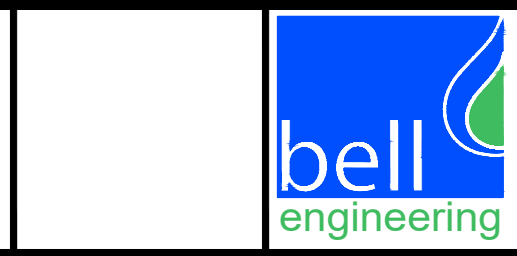
KY 499 SCALE: 1"=20'

Professional Engineer Seal for Robert A. Bell, State of Kentucky, License No. 24245, dated 6/15/2020.

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APPROVED	RAB			



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**PHASE 11 SYSTEM IMPROVEMENTS
 ZONE METER & RIVER CROSSING INSTALLATION
 ESTILL COUNTY WATER DISTRICT #1
 IRVINE, KENTUCKY**

**ZONE METERS
 SWEET LICK ROAD,
 SOUTH IRVINE ZONE, WISEMANTOWN ZONE
 AND CROOKED CREEK ZONE**

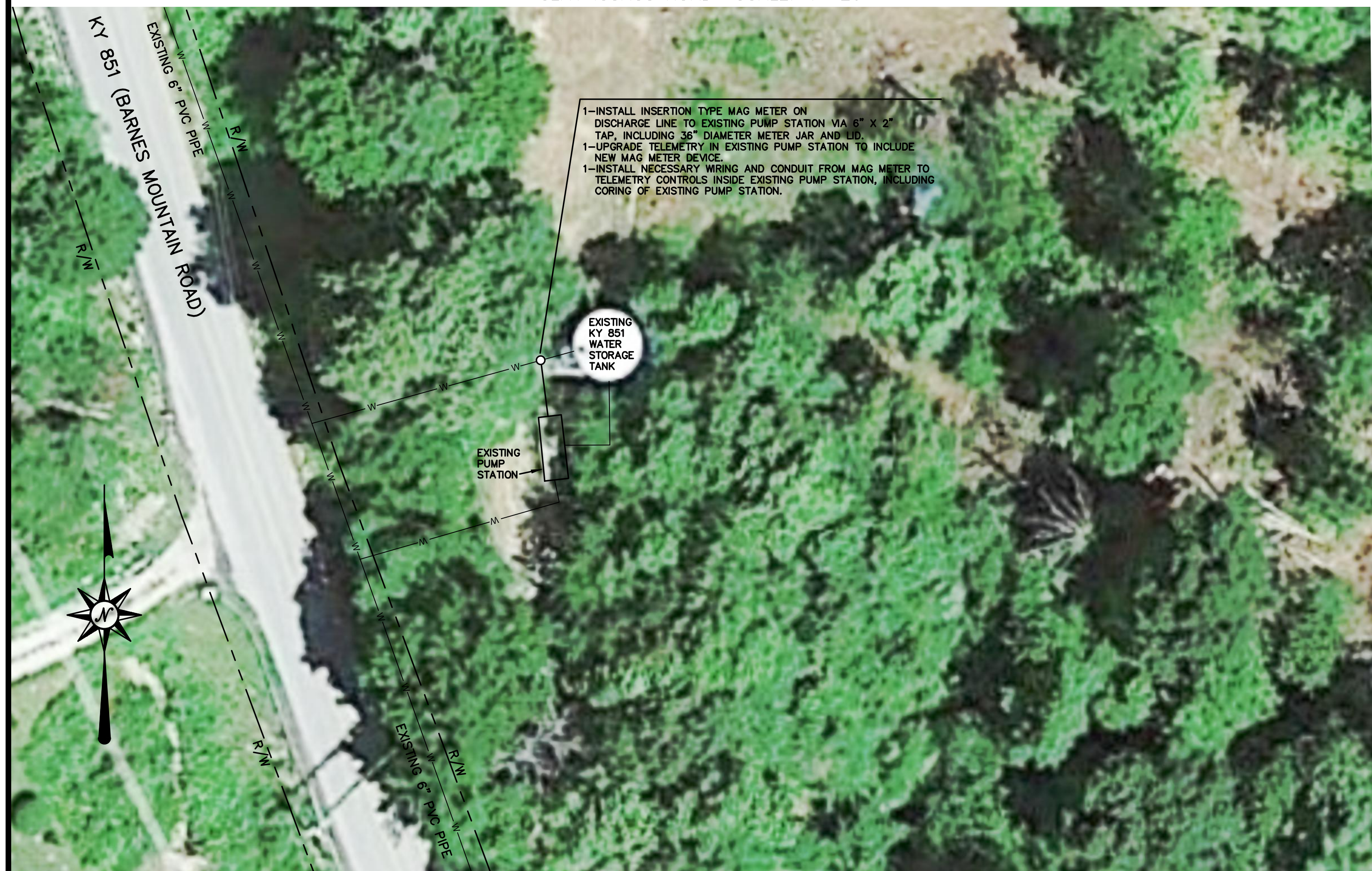
DIVISION	-
CONTRACT NO.	371-20-01
DATE	APRIL 2020
SHEET NO.	6 OF 8



CLAY ISSACS ROAD SCALE: 1"=20'

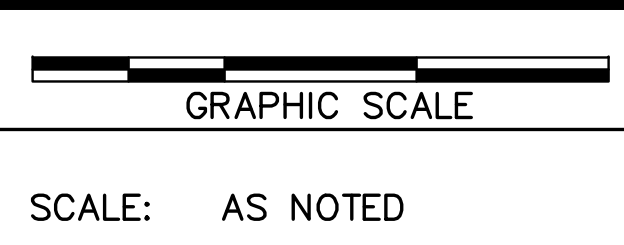


KY 89 SCALE: 1"=20'



KY 851 (BARNES MOUNTAIN PUMP STATION) SCALE: 1"=20'

DESIGNER	RAB	DATE	BY	REVISION
DRAWN	DMB			
CHECKED	RAB			
APPROVED	RAB			



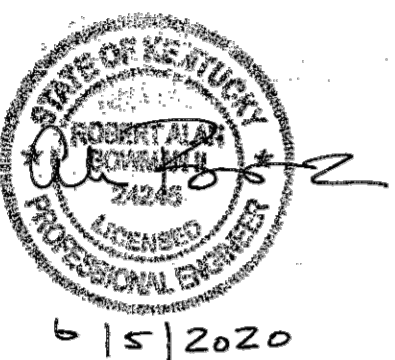
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PHASE 11 SYSTEM IMPROVEMENTS
 ZONE METER & RIVER CROSSING INSTALLATION
 ESTILL COUNTY WATER DISTRICT #1
 IRVINE, KENTUCKY

ZONE METERS
 RED LICK ZONE,
 JACKSON ZONE AND
 BARNES/851 MOUNTAIN ZONE



DIVISION	-
CONTRACT NO.	371-20-01
DATE	APRIL 2020
SHEET NO.	7 OF 8



KY 851/BARNES MOUNTAIN ROAD SCALE: 1"=20'



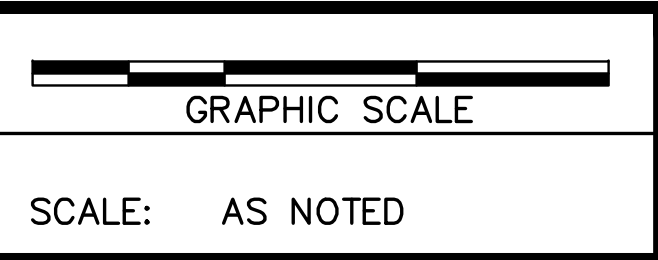
KY 851 (SOUTH IRVINE PUMP STATION) SCALE: 1"=20'



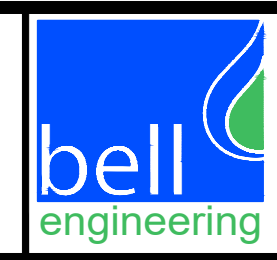
KY 1182 (COB HILL PUMP STATION) SCALE: 1"=20'

6/15/2020

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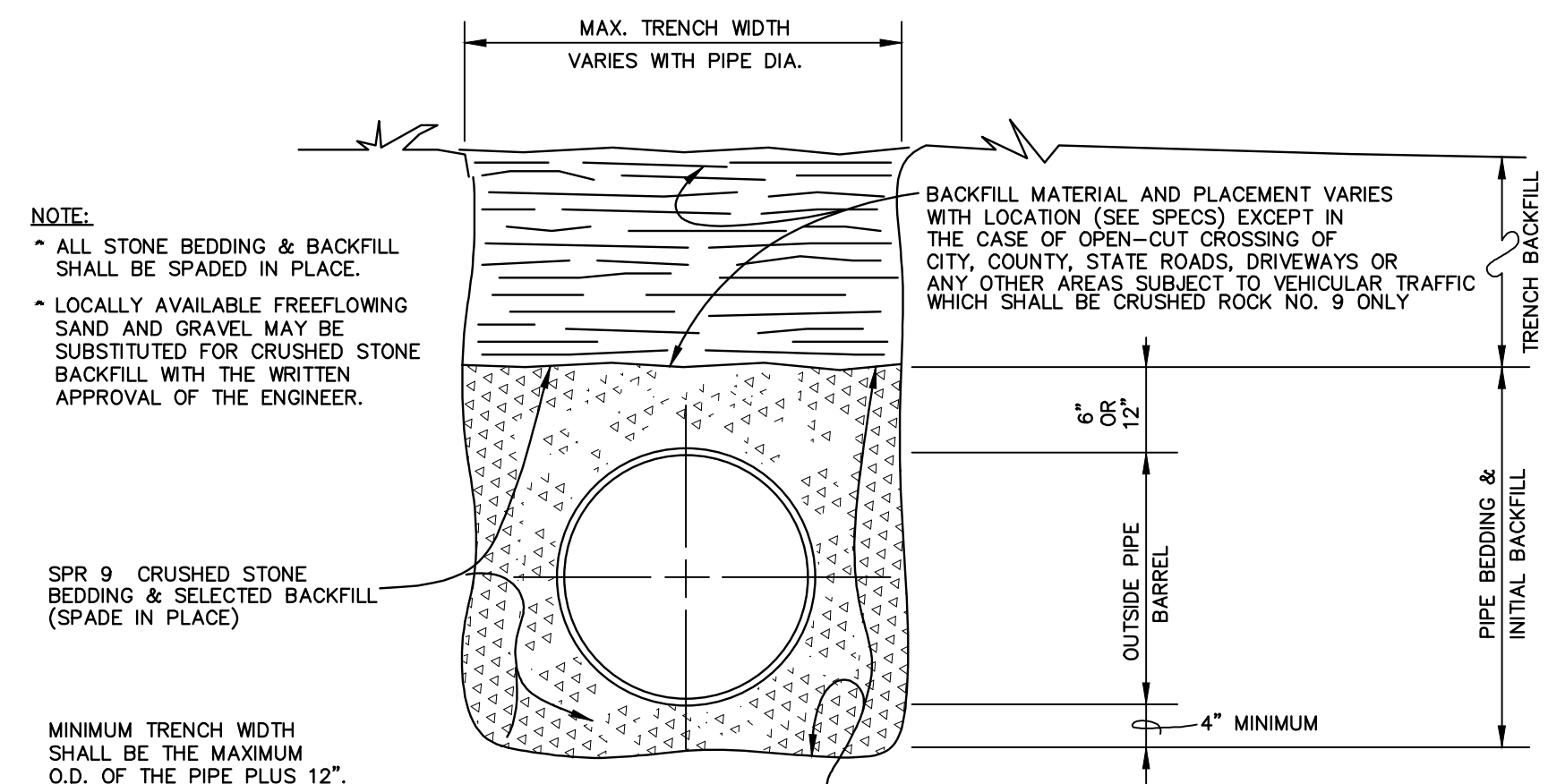
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PHASE 11 SYSTEM IMPROVEMENTS
 ZONE METER & RIVER CROSSING INSTALLATION)
 ESTILL COUNTY WATER DISTRICT #1
 IRVINE, KENTUCKY

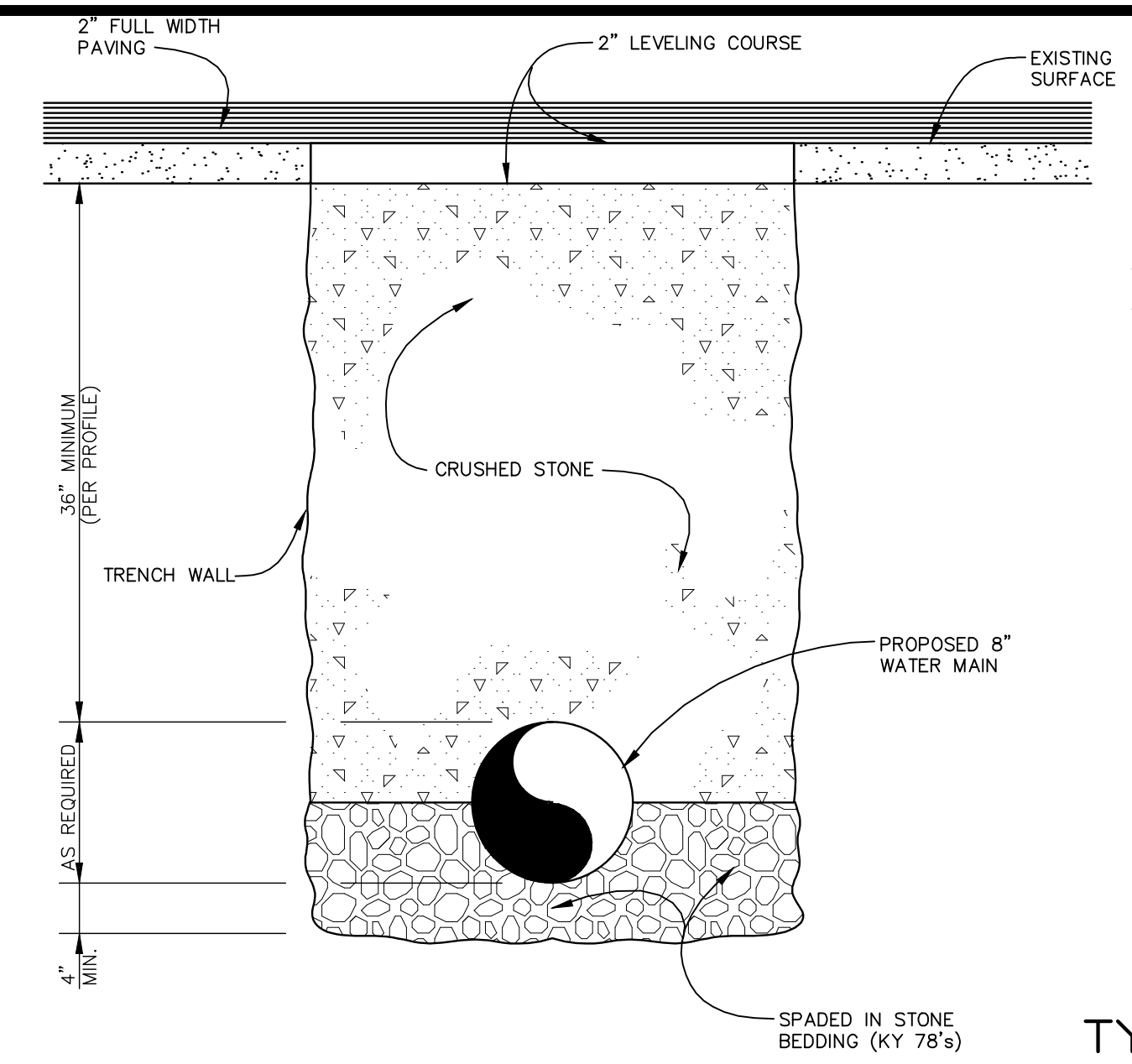
ZONE METERS
 BEATTVILLE ROAD ZONE
 AND
 COB HILL ZONE

DIVISION	-
CONTRACT NO.	371-20-01
DATE	APRIL 2020
SHEET NO.	8 OF 8

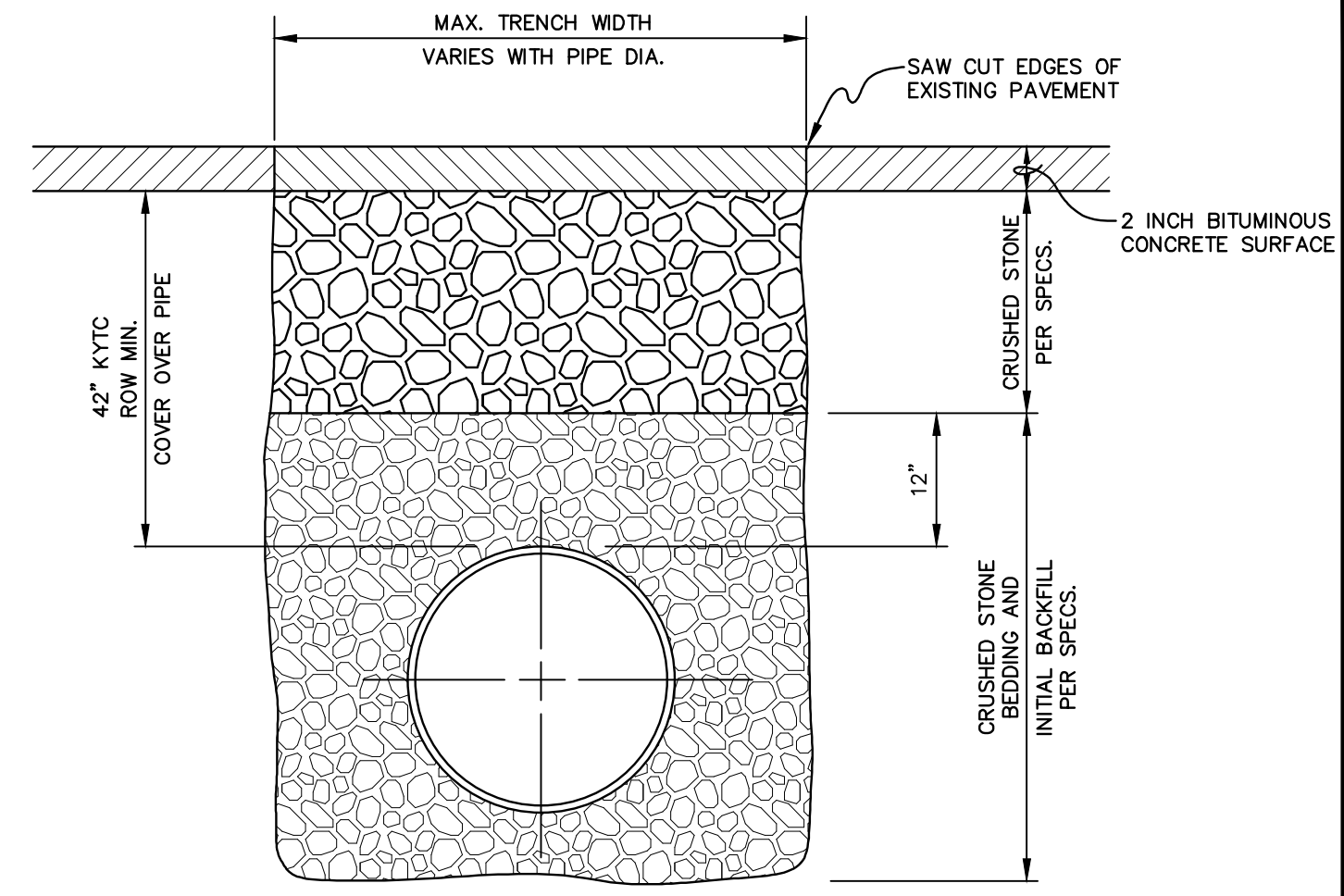
ESTILL COUNTY WATER DISTRICT NO. 1 (3/27-19-01) PHASE 11 SYSTEM IMPROVEMENTS (3/27/19) DWG. PLOTTER: WES. 09 Dec 2020 - 2:03pm by DMB



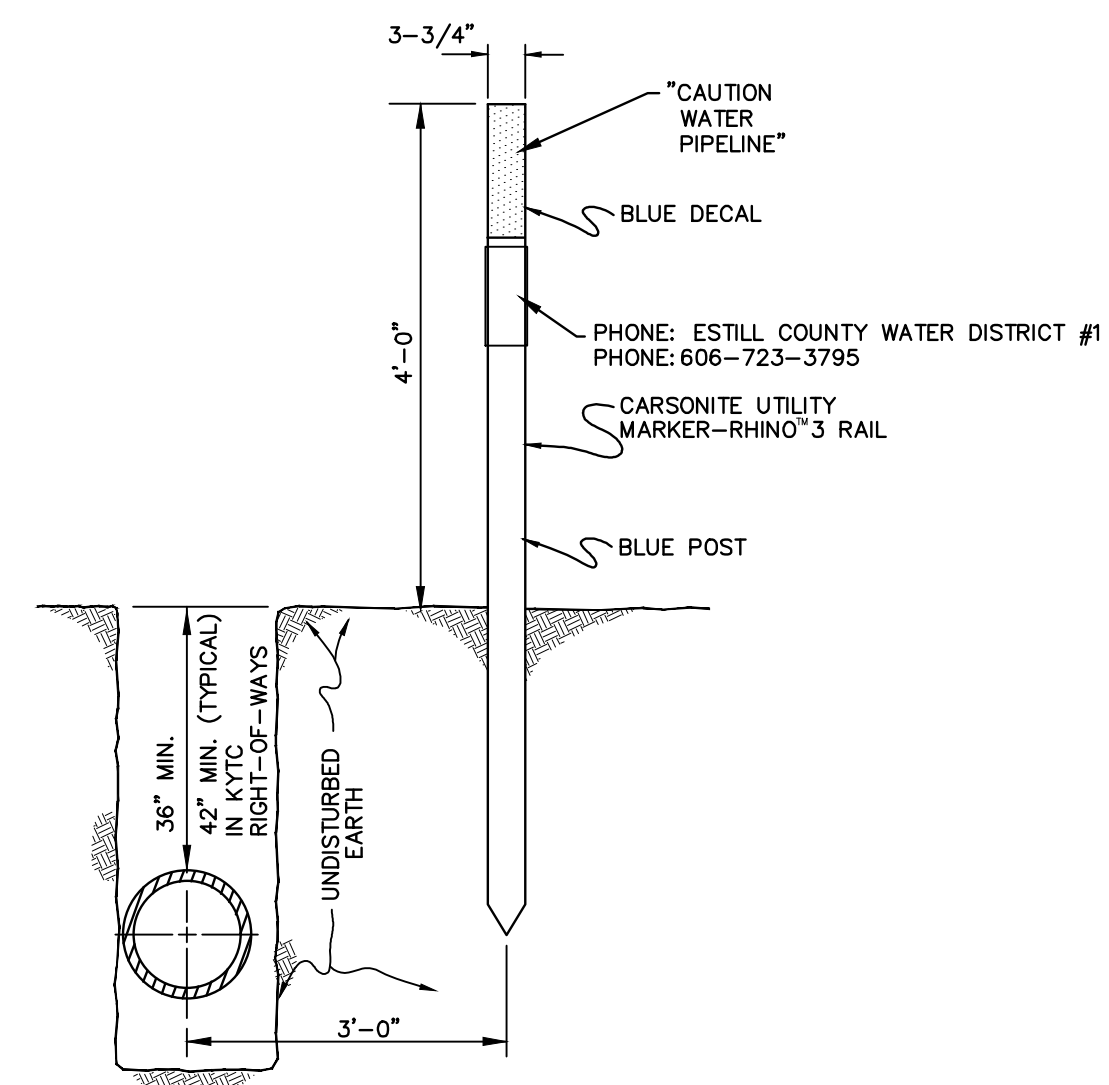
DETAIL BEDDING & BACKFILL WATER MAIN INSTALLATION
NOT TO SCALE



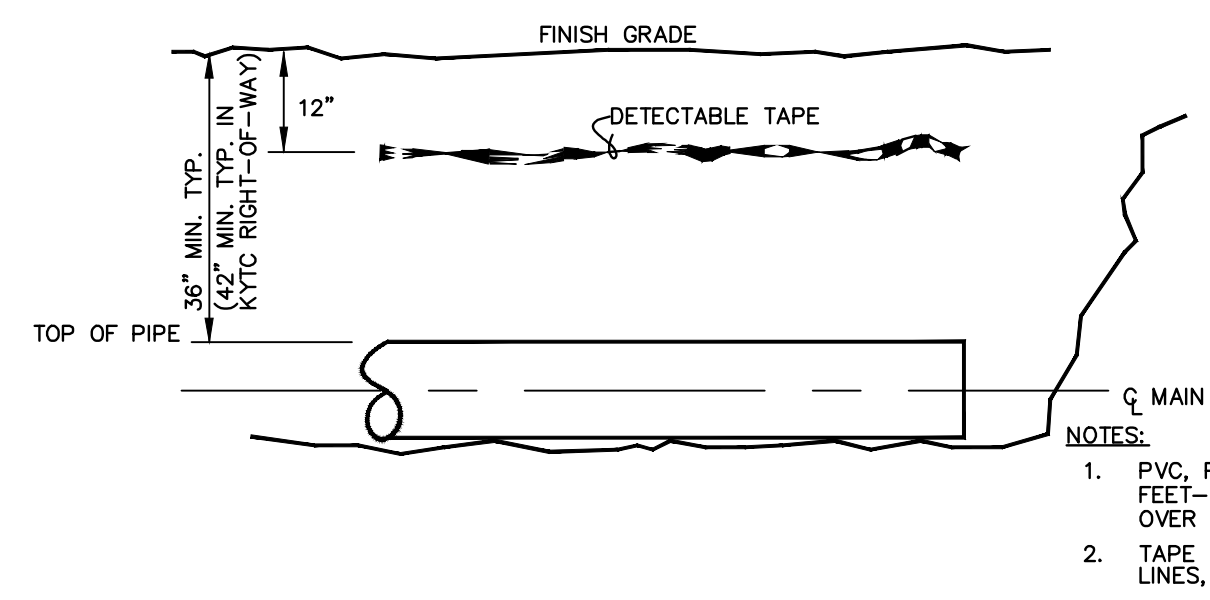
BACKFILL REQUIREMENT FOR PIPE IN PROPOSED ROAD AND EXISTING ROADWAY, NOT STATE HIGHWAY
NOT TO SCALE



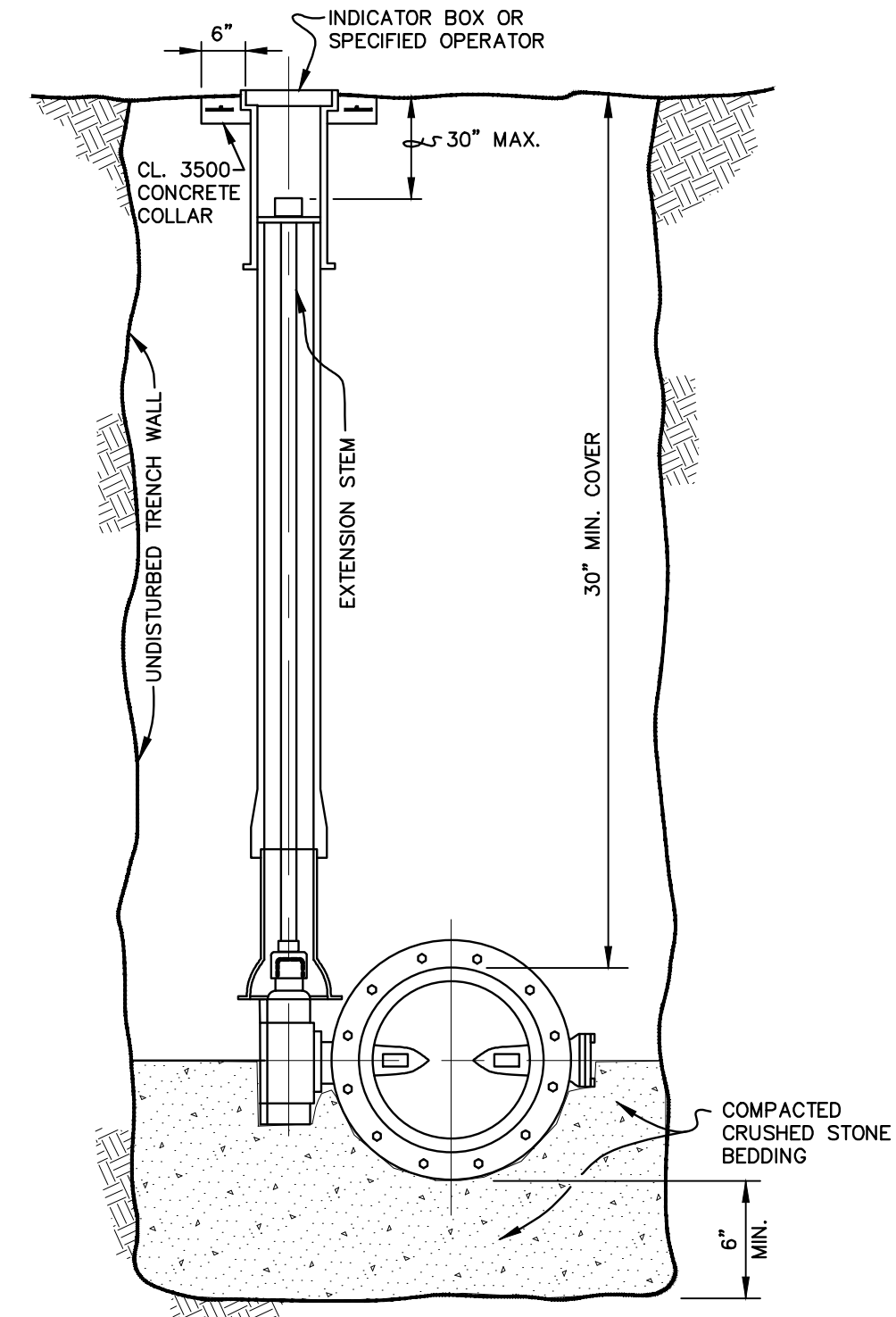
TRENCH DETAIL TYPICAL OPEN CUT CROSSING OF COUNTY ROADS, STREETS AND BITUMINOUS PAVED DRIVEWAYS
NOT TO SCALE



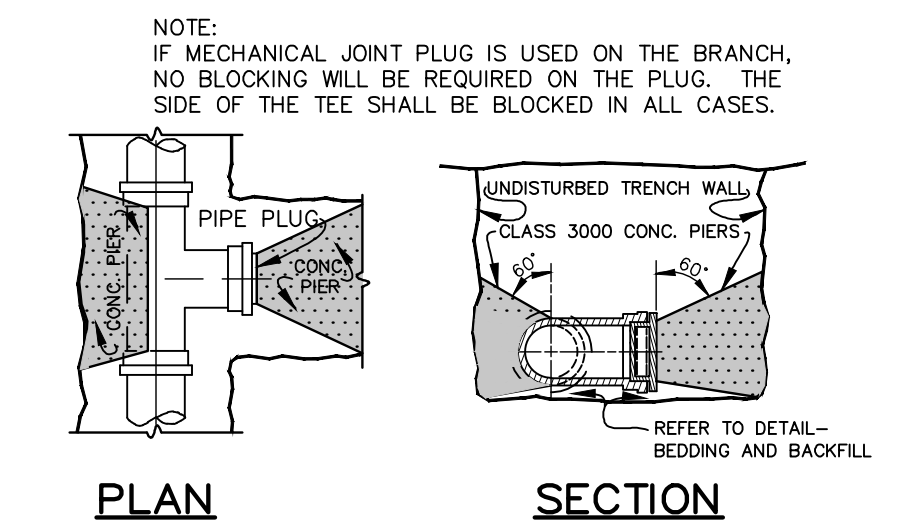
DETAIL FLEXIBLE FIBERGLASS COMPOSITION LINE MARKER
NOT TO SCALE



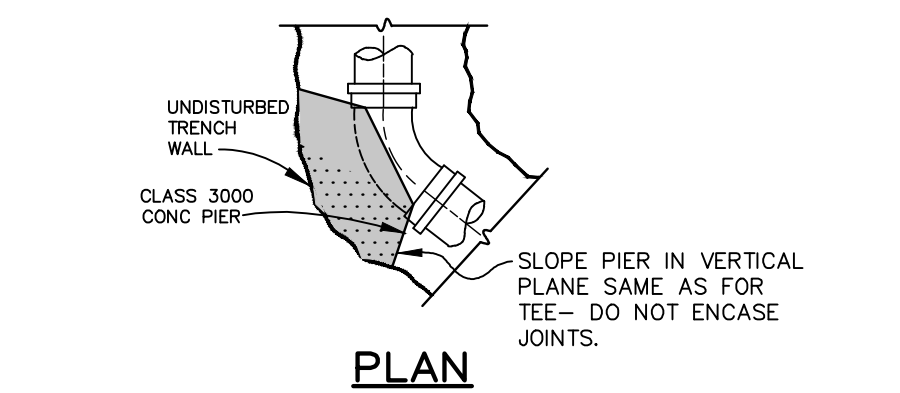
TYPICAL PVC, D.I. OR POLYETHYLENE WL WITH DETECTABLE TAPE INSTALLATION
NOT TO SCALE



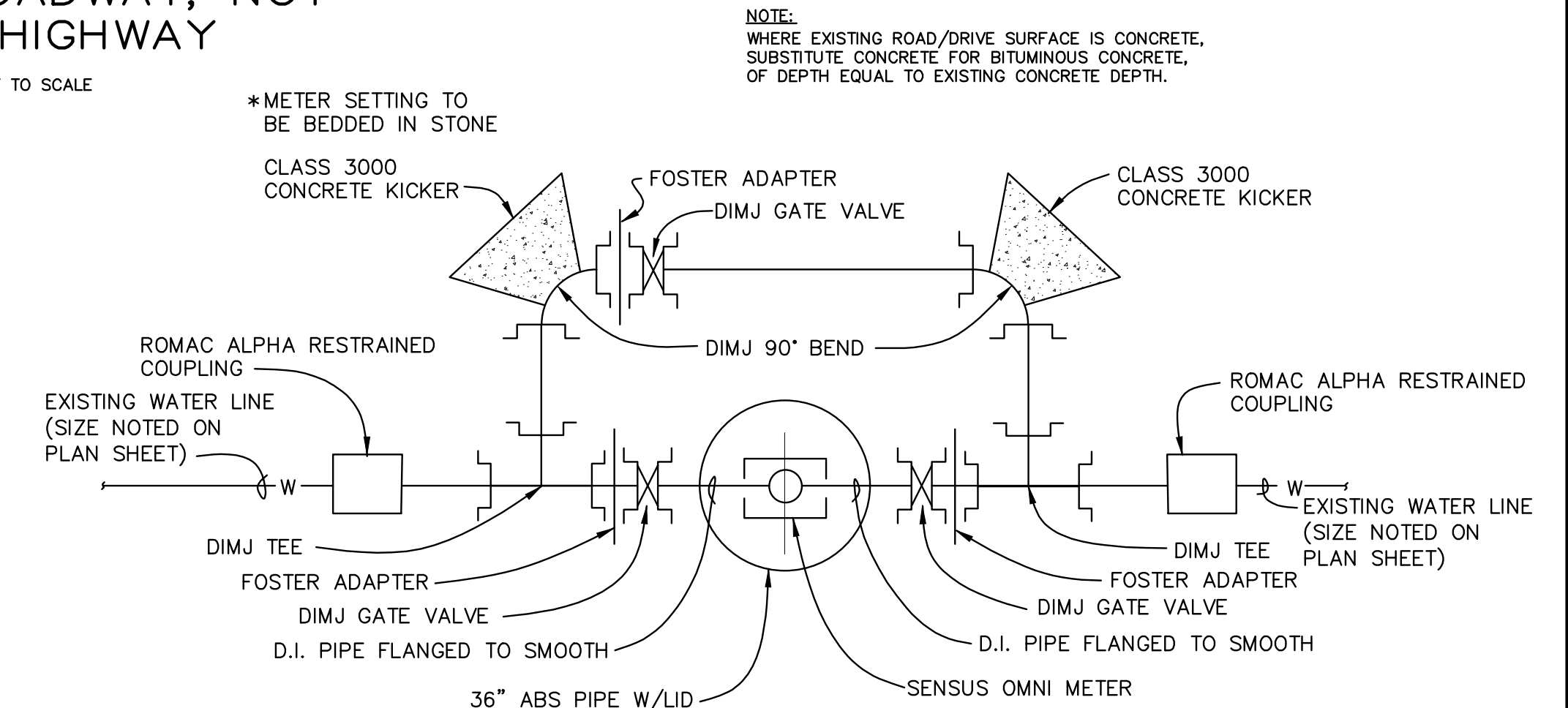
TYPICAL DETAIL OF COMPACTED CRUSHED STONE BEDDING FOR UNDERGROUND BUTTERFLY VALVES
NOT TO SCALE



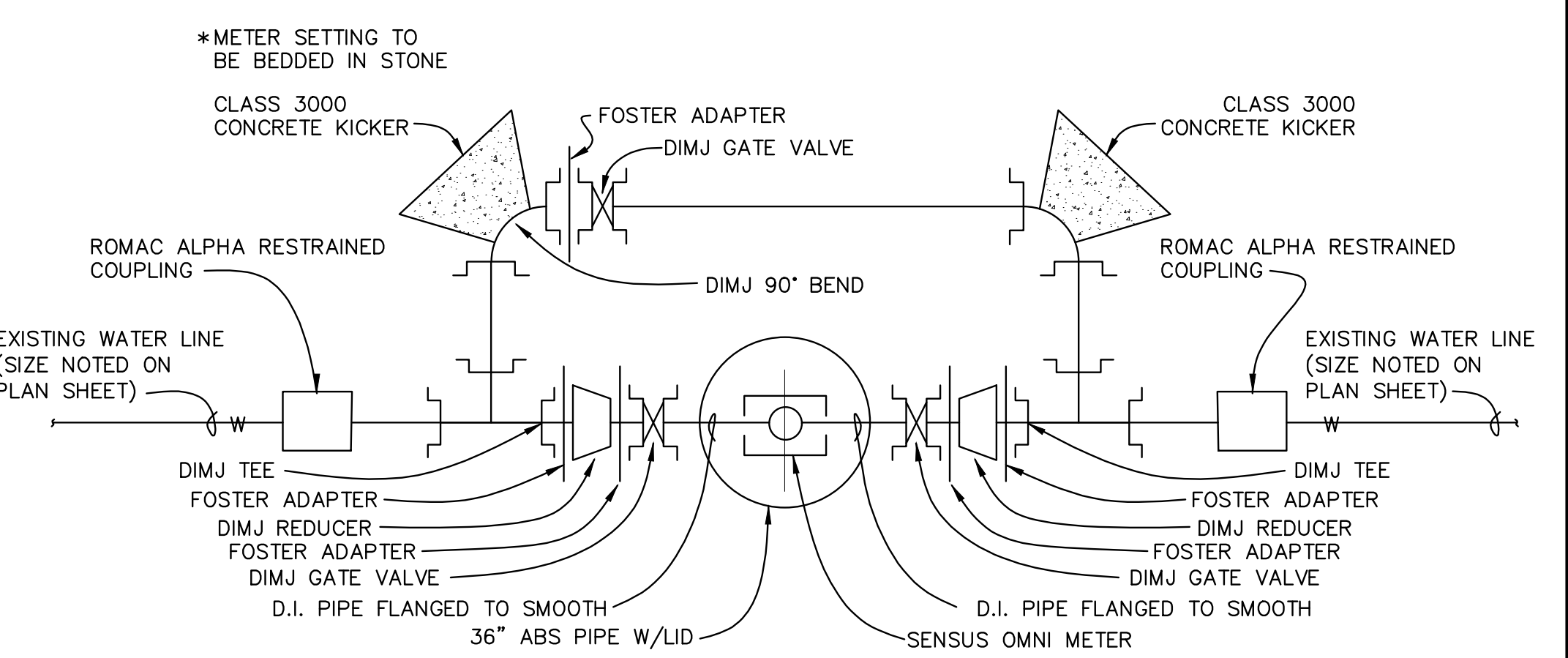
TYPICAL DETAIL OF CONCRETE BLOCKING AT TEES & PLUGS



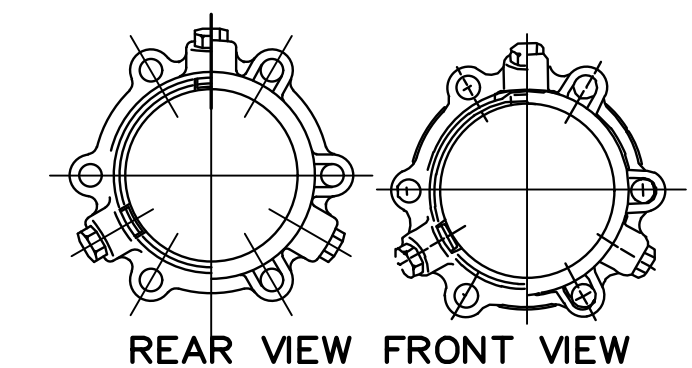
TYPICAL DETAIL OF CONCRETE BLOCKING AT HORIZONTAL BENDS
NOT TO SCALE



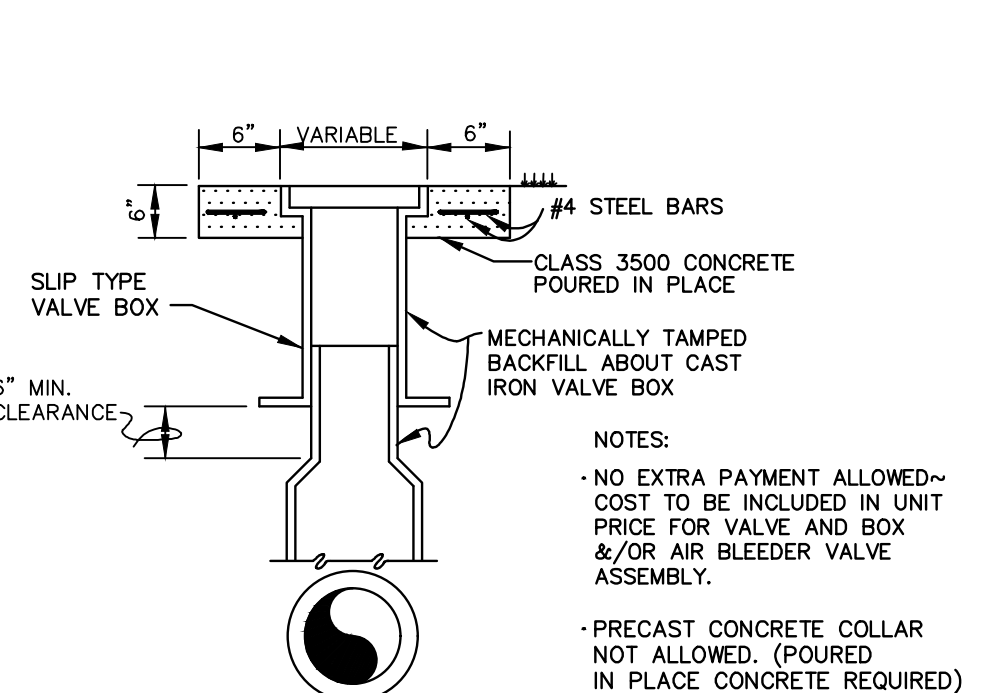
PRE-ASSEMBLED ZONE METER SETTING W/O REDUCER
NOT TO SCALE



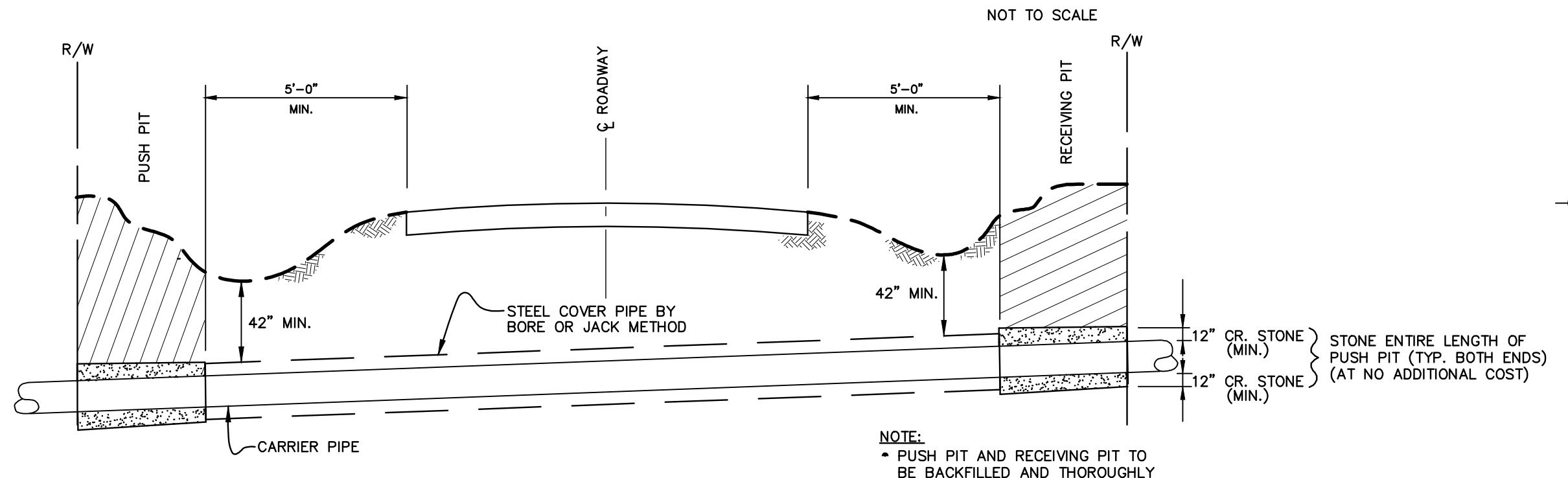
PRE-ASSEMBLED ZONE METER SETTING W/ REDUCER
NOT TO SCALE



MEGALUG JOINT RESTRAINT
NOT TO SCALE

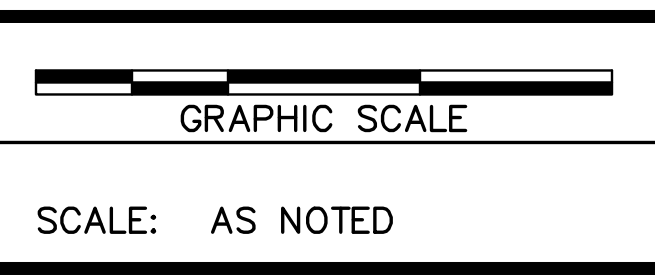


CONCRETE VALVE BOX COLLAR
(REQUIRED ON ALL VALVES)
NOT TO SCALE



TYPICAL HIGHWAY BORING CROSSING DETAIL
NOT TO SCALE

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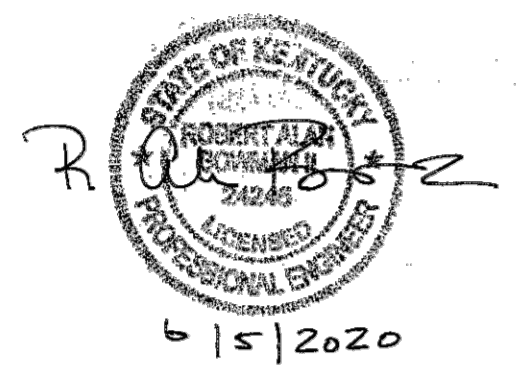
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**PHASE 11 SYSTEM IMPROVEMENTS
ZONE METER & RIVER CROSSING INSTALLATION
ESTILL COUNTY WATER DISTRICT #1
ESTILL COUNTY, KENTUCKY**

ZONE METER DETAIL & MISCELLANEOUS DETAILS

DIVISION	ALL
CONTRACT NO.	371-20-01
DATE	APRIL 2020
SHEET NO.	D1 OF D2



ELECTRICAL ABBREVIATIONS

A	AMPERE
AF	AMPERE FRAME
AFD	ADJUSTABLE FREQUENCY DRIVE
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
C	CONDUIT (RACEWAY)
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
C/L	CENTERLINE
CLG	CEILING
CP	CONTROL PANEL
CT	CURRENT TRANSFORMER OR CONSTANT TORQUE
CTL	CONTROL
CU	COPPER OR CONDENSING UNIT
Δ/Y	DELTA/WYE
DB	DIRECT BURIAL
DN	DOWN
DPST	DOUBLE POLE-SINGLE THROW
EC	EMPTY CONDUIT
EF	EXHAUST FAN
EG	EQUIPMENT GROUND
EGC	EQUIPMENT GROUND CONDUCTOR
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC
EOL	END-OF-LINE
EMERG	EMERGENCY
EUH	ELECTRIC UNIT HEATER
EWC	ELECTRIC WATER COOLER
EWL	ELECTRIC WALL HEATER/WATER HEATER
EX	EXISTING
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FO	FIBER OPTIC
FVNR	FULL VOLTAGE, NON-REVERSING
GEC	GROUNDING ELECTRODE CONDUCTOR
GFCI OR GFI	GROUND FAULT CURRENT INTERRUPTING
GND	GROUND
HOA	HAND-OFF-AUTO SELECTOR SWITCH
HP	HORSEPOWER
J OR JB	JUNCTION BOX
KVA	KILOVOLT-AMPERES
KWH	KILOWATT-HOUR
KCMIL	THOUSAND CIRCULAR MILS
LF	LIGHTING FIXTURE (LUMINAIRE)
LM	LUMEN
LTG	LIGHTING
LTS	LIGHTS
LS	LIMIT SWITCH
LV	LOW VOLTAGE
MCB	MAIN CIRCUIT BREAKER
MCP	MOTOR CIRCUIT PROTECTOR
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MTD	MOUNTED
MV	MEDIUM VOLTAGE
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NL	NON LINEAR
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OH	OVERHEAD
OL	OVERLOAD
P	POLE
OT	OVER TEMPERATURE
PH OR Ø	PHASE
PNL	PANEL
PVC	POLY-VINYL CHLORIDE
PWR	POWER
RECEPT	RECEPTACLE
SHT	SHEET
S/N	SOLID NEUTRAL
SP	SINGLE POLE
SPD	SURGE PROTECTION DEVICE
SS	STAINLESS STEEL
STA	STATION
STD	STANDARD
STIC	SHIELDED TWISTED INSTRUMENT CABLE
SW	SWITCH
TB	TERMINAL BOX
TM	THERMAL MAGNETIC
TS	TAMPER SWITCH
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
UG	UNDERGROUND
UH	UNIT HEATER
V	VOLTAGE OR VOLTS
W	WIRE
WP	WEATHERPROOF
W/	WITH
XFMR	TRANSFORMER

ELECTRICAL PLAN SYMBOLS

	ELECTRICAL CIRCUIT: SHORT=PHASE CONDUCTOR; LONG = NEUTRAL, DASHED = EQUIPMENT GROUND
	EMERGENCY CIRCUIT
	SWITCH: 3=3 WAY; 4=4 WAY; K=KEY; WP=WEATHERPROOF; M=MOTOR STARTER; PL=PILOT LT
	DUPLEX RECEPTACLE: WP = WEATHERPROOF; GFI = GROUND FAULT; NUMBER = MOUNTING HEIGHT
	SINGLE RECEPTACLE
	208 or 240 VOLT RECEPTACLE
	DUPLEX RECEPTACLE, FLUSH FLOORBOX MOUNTED
	SPECIAL PURPOSE RECEPTACLE OUTLET
	THERMOSTAT
	MOTOR
	JUNCTION BOX - SMALL
	JUNCTION BOX - FLUSH-MOUNTED
	SAFETY SWITCH - NONFUSED UNLESS NOTED OTHERWISE
	MAGNETIC COMBINATION STARTER - THREE PHASE
	MAGNETIC COMBINATION STARTER - SINGLE PHASE
	TELECOM OUTLET: D = DATA; T = TELEPHONE; C = CABLE; NUMBER = QTY OF CABLES & JACKS
	CONDUIT TURNED UP
	CONDUIT TURNED DOWN
	WALL MOUNTED SPEAKER OR ALARM HORN
	PANELBOARD (SURFACE MOUNTED)
	PANELBOARD (FLUSH MOUNTED IN WALL)
	HEATER-WALL MOUNTED
	EXHAUST FAN/VENTILATOR
	SPEAKER GENERAL
	CLOCK
	EXISTING POWER POLE
	NEW POWER POLE
	LIGHTING POLE
	PHOTO CELL
	MANHOLE
	PULLBOX
	MUSHROOM HEAD EMERGENCY SWITCH
	DUCT SMOKE DETECTOR
	HEAT DETECTOR
	SMOKE DETECTOR
	FIRE ALARM MANUAL PULL STATION
	FIRE ALARM HORN/STROBE
	FIRE ALARM STROBE
	FIRE ALARM ZONE ADDRESSABLE MODULE
	SPRINKLER SYSTEM FLOW SWITCH
	TAMPER SWITCH
	MAGNETIC DOOR HOLDER
	KEYNOTE
	CALL SWITCH
	PASSIVE INFRARED MOTION DETECTOR
	NEMA XX
	ELECTRICAL LINE UNDERGROUND
	ELECTRICAL LINE OVERHEAD
	INSTRUMENTATION LINE UNDERGROUND
	INSTRUMENTATION LINE OVERHEAD
	TELEPHONE LINE UNDERGROUND
	TELEPHONE LINE OVERHEAD

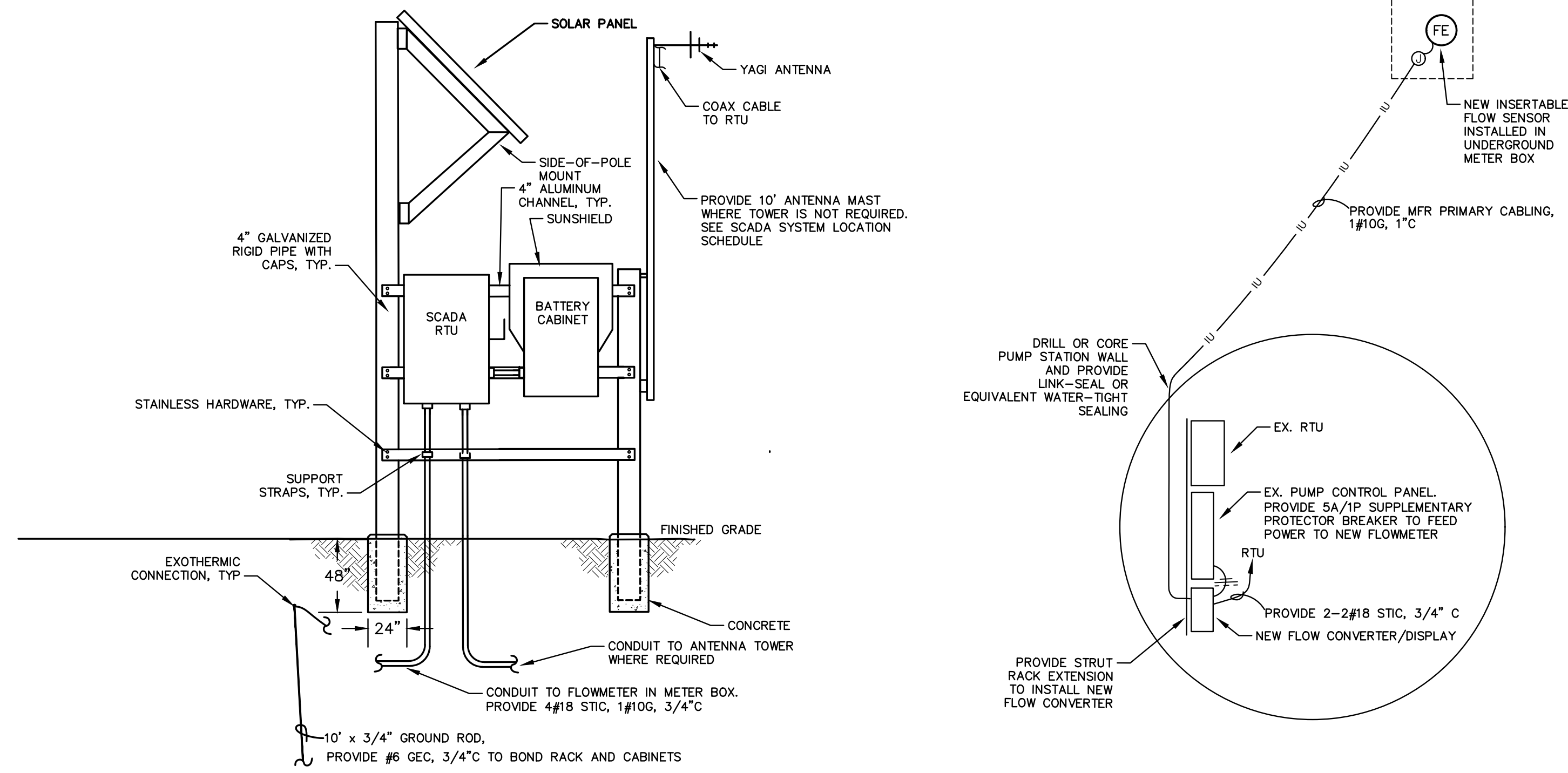
ELECTRICAL DIAGRAM SYMBOLS

	TRANSFORMER
	CAPACITOR
	GROUND
	CURRENT TRANSFORMER
	POTENTIAL TRANSFORMER
	CIRCUIT BREAKER (GENERAL)
	CIRCUIT BREAKER, THERMAL-MAGNETIC
	CIRCUIT BREAKER, MAGNETIC-ONLY
	CIRCUIT BREAKER (DRAWOUT)
	GROUND FAULT PROTECTED CIRCUIT BREAKER
	RELAY CONTACTS (NORMALLY OPENED)
	RELAY CONTACTS (NORMALLY CLOSED)
	THERMAL OVERLOAD PROTECTION
	FUSE
	DOT INDICATES A CONNECTION OF TWO WIRES
	TERMINALS FOR CONNECTION OF REMOTE WIRING
	RELAY/CONTACTOR COIL: C = CONTRACTOR; CR = CONTROL RELAY; TR = TIMING RELAY; M = MOTOR
	HAND-OFF-AUTOMATIC SWITCH
	FULL VOLTAGE NON-REVERSING MOTOR STARTER; X = NEMA SIZE
	PILOT LIGHT: R = RED; G = GREEN; A = AMBER; W = WHITE
	PILOT LIGHT - PUSH-TO-TEST
	MOTOR
	FUSED DISCONNECT SWITCH
	FLOAT SWITCH
	TEMPERATURE SWITCH (THERMOSTAT)
	PRESSURE SWITCH
	LIMIT SWITCH
	FLOW SWITCH
	SOLENOID VALVE COIL
	ELAPSED TIME METER
	KEY INTERLOCK
	BATTERY
	PUSHBUTTONS, N.C. & N.O. RESPECTIVELY
	SELECTOR SWITCH - TWO POSITION
	FUSED CUTOUT
	SECTIONALIZING SWITCH (3 PHASE)
	TIMER RELAY CONTACT: NORMALLY OPEN - TIMED OPEN UPON DEENERGIZATION
	TIMER RELAY CONTACT: NORMALLY CLOSED - TIMED CLOSE UPON DEENERGIZATION
	TIMER RELAY CONTACT: NORMALLY OPEN - TIMED CLOSE UPON ENERGIZATION
	TIMER RELAY CONTACT: NORMALLY CLOSED - TIMED OPEN UPON ENERGIZATION
	TRANSFER SWITCH
	GENERATOR
	EXTERNAL WIRING
	EMERGENCY STOP BUTTON

SCADA SYSTEM LOCATION SCHEDULE

LOCATION	GROUND ELEVATION	MIN. ANTENNA HEIGHT TOWER	LATITUDE	LONGITUDE	EX. PUMP STATION AND EX. RTU	NEW SOLAR RTU INSTALLATION
DRY BRANCH ZONE - KY1886/NEW FOX	813	30 FT	37.79721	-84.03872		X
DRY BRANCH ZONE - KY 89/VORY HILL P.S.	716	EX.	37.78894	-84.02838	X	
DRY BRANCH ZONE - KY82	705	40 FT	37.78306	-84.00985		X
KY-89 ZONE - SUGAR HOLLOW RD	627	MAST ONLY	37.67873	-83.97187		X
SAND HILL ZONE - 1457 PUMP STATION	861	MAST ONLY	37.72145	-84.02725		X
SAND HILL ZONE - CEDAR GROVE P.S.	772	EX.	37.71028	-84.01369	X	
KY 52 ZONE - KY 1353	927	MAST ONLY	37.70408	-84.06406		X
SWEET LICK ZONE - SWEET LICK RD	680	MAST ONLY	37.71020	-83.96586		X
SOUTH IRVINE ZONE - NEW RIVER P.S.	633	EX.	37.69524	-83.97728	X	
WESMANTOWN ZONE - KY 594/PEA RIDGE P.S.	703	EX.	37.67757	-84.02199	X	
CROOKED CREEK ZONE - KY499	670	MAST ONLY	37.67389	-84.02058		X
RED LICK ZONE - CLAY ISAACS RD	630	40 FT	37.62942	-83.98263		X
JACKSON ZONE - KY 89	1335	30 FT	37.58793	-83.96467		X
BARNES/851 MOUNTAIN ZONE - KY851 P.S./BARNES MOUNTAIN P.S.	872	EX.	37.65063	-83.91411	X	
BEATTYVILLE RD ZONE - KY 3329	635	MAST ONLY	37.62724	-83.93272		X
BEATTYVILLE RD ZONE - KY 851/DOE CREEK SOUTH IRVINE P.S.	616	EX.	37.68055	-83.96999	X	
COB HILL ZONE - KY 1182/COBB HILL P.S.	776	EX.	37.69069	-83.85339	X	
MASTER- WATER DISTRICT OFFICE	658	EX. ~30 FT	37.69903	-83.98983		

NOTES:
* ANTENNA MOUNTING HEIGHTS SHALL BE CONFIRMED VIA PATH STUDY. SEE SPECIFICATIONS FOR REQUIREMENTS



SOLAR-POWERED RTU INSTALLATION, TYP.

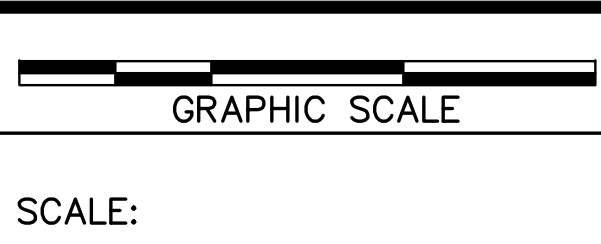
NOT TO SCALE
NOTES:
* TYPICAL FOR 10 SITES. SEE SCADA SYSTEM LOCATION SCHEDULE

EX. PUMP STATION ELECTRICAL PLAN, TYP.

SCALE: 1/2" = 1'-0" (APPROXIMATE)
NOTES:
* TYPICAL FOR 7 SITES. SEE SCADA SYSTEM LOCATION SCHEDULE

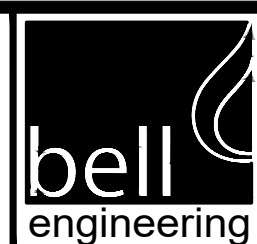
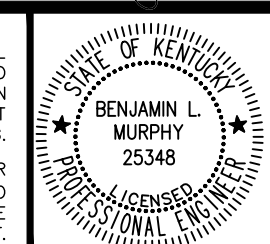


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Ben Murphy 10/20/2020

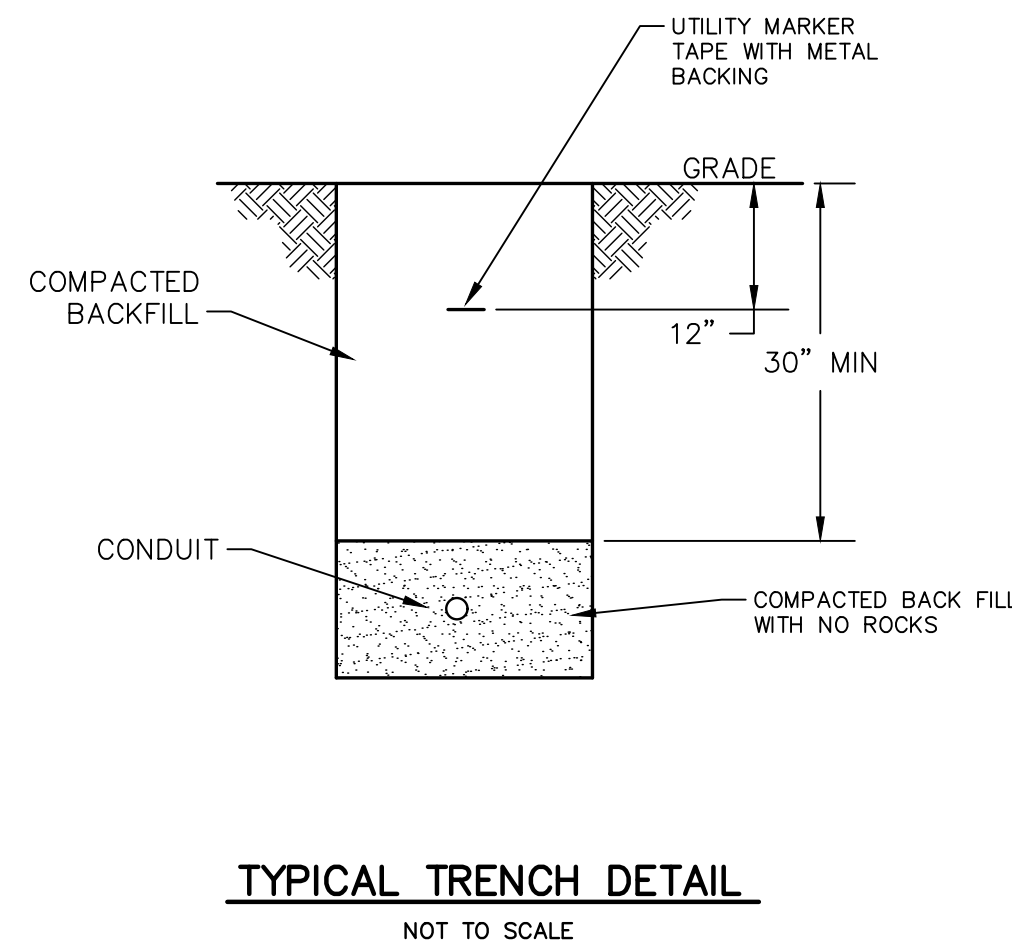
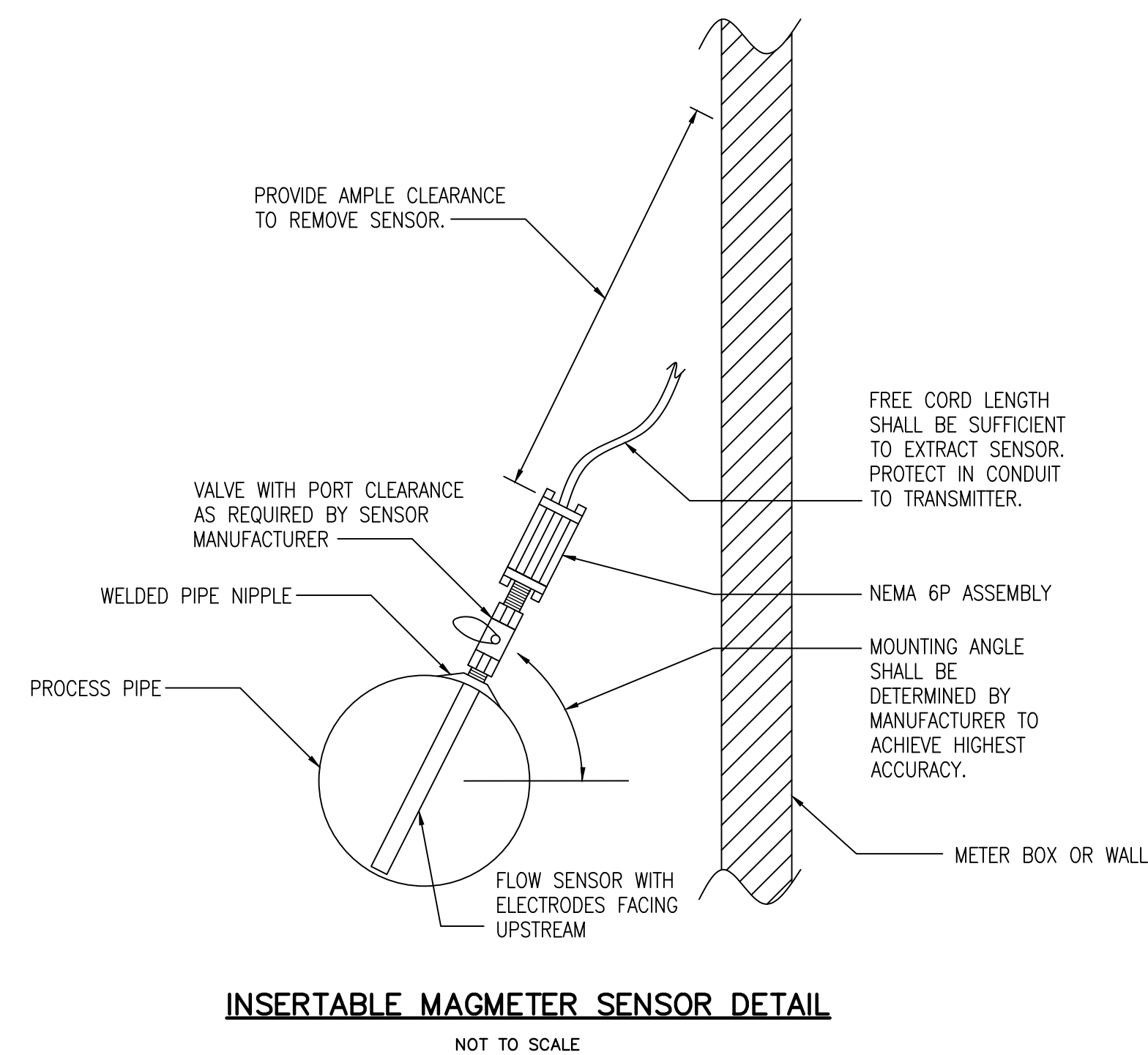


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ESTILL COUNTY FLOW METERING
ESTILL COUNTY
ESTILL COUNTY, KENTUCKY

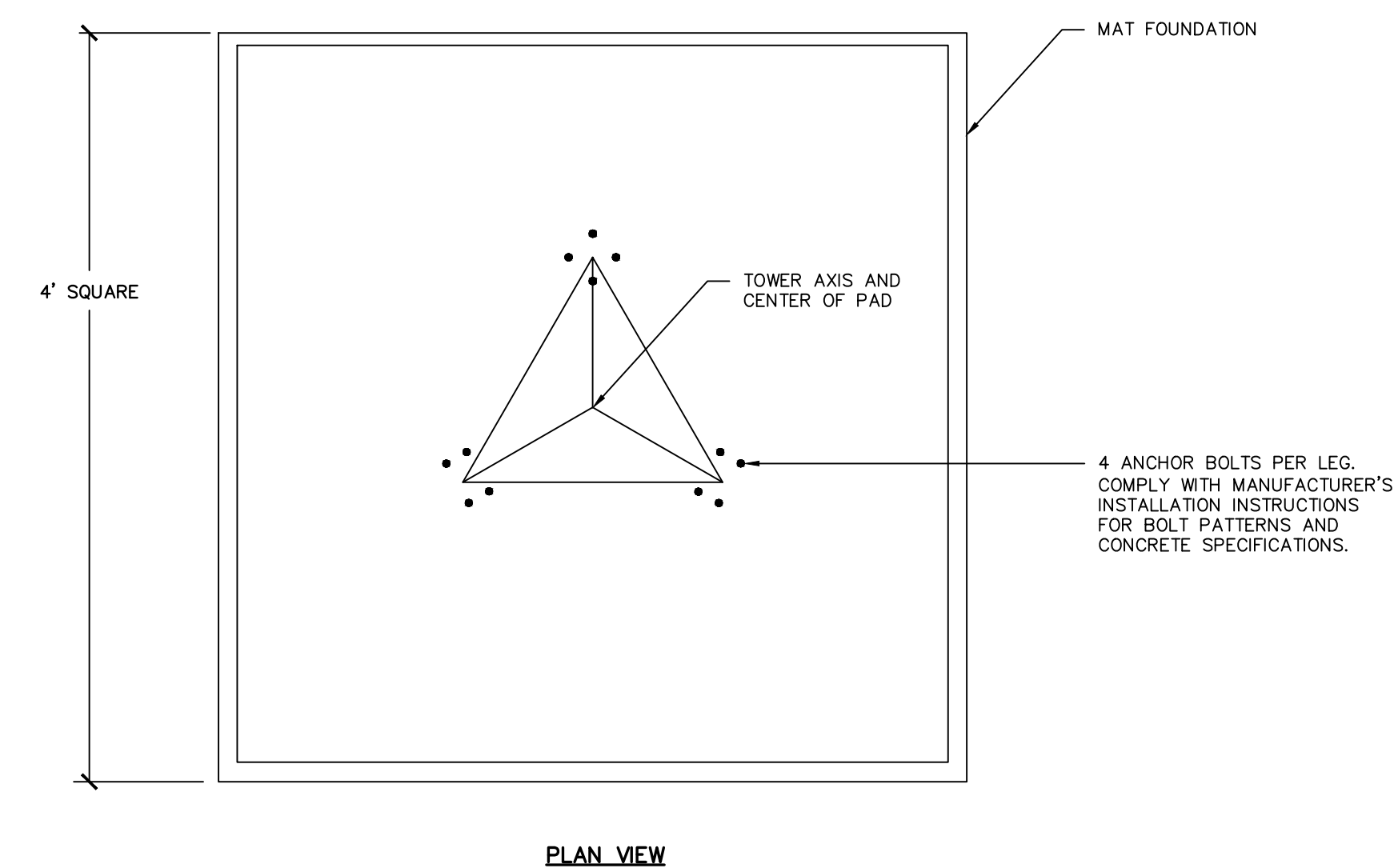
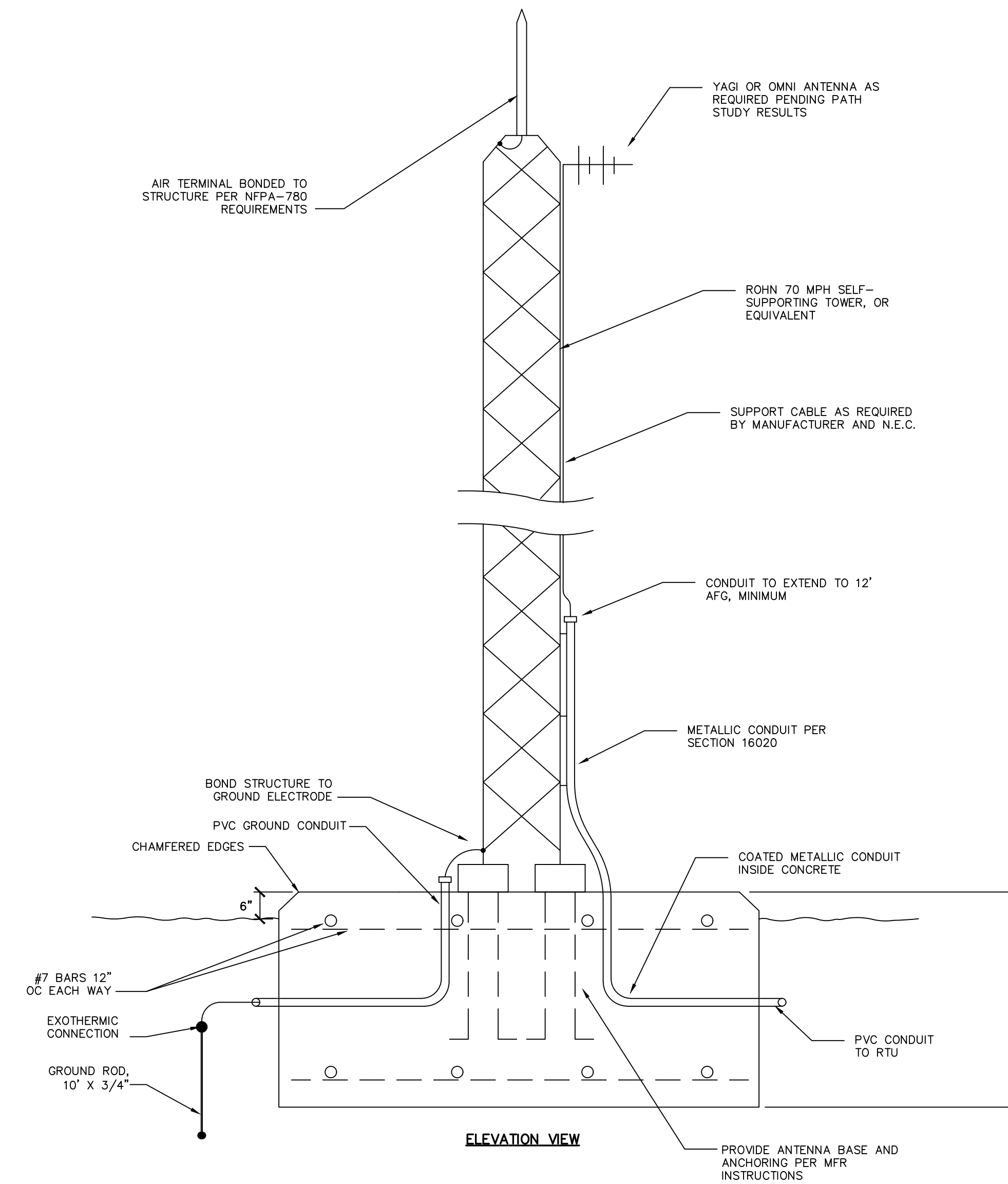
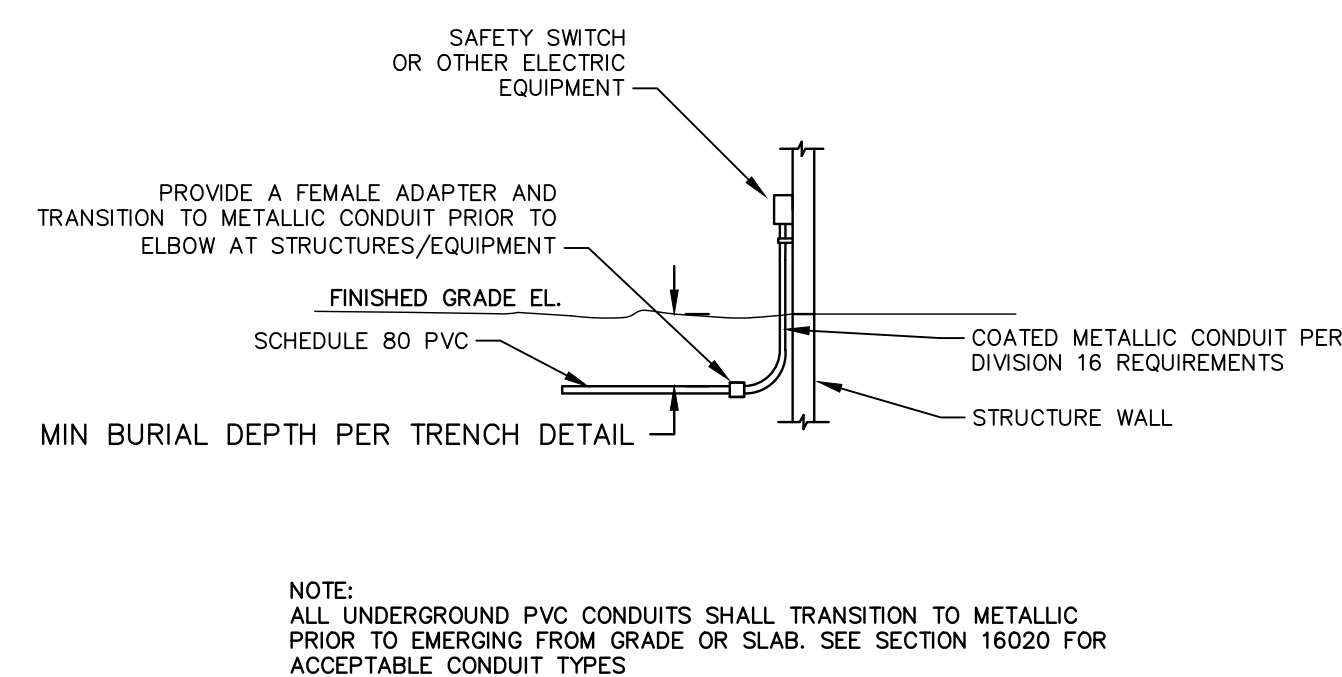
ELECTRICAL SYMBOLS, ABBREVIATIONS, SCHEDULES AND DETAILS

DIVISION
CONTRACT NO. 568-19-01
DATE JULY 2020
SHEET NO. E-1 OF E-2



TRENCHING NOTES:

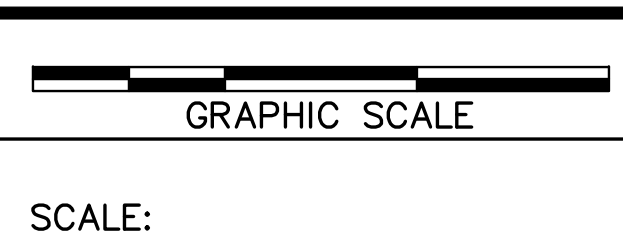
- UTILITY MARKER TAPE SHALL RUN THE ENTIRE LENGTH OF DUCT BANK.
- MAINTAIN MINIMUM 12" SPACING BETWEEN INSTRUMENTATION AND POWER.
- MAINTAIN MINIMUM 36" SPACING BETWEEN OTHER SITE PIPING, INCLUDING WATER, AND GAS.



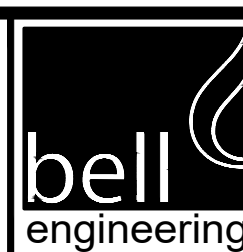
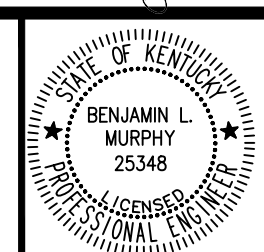
TYPICAL ANTENNA TOWER DETAIL
NOT TO SCALE



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ESTILL COUNTY FLOW METERING
ESTILL COUNTY
ESTILL COUNTY, KENTUCKY

ELECTRICAL DETAILS

DIVISION	
CONTRACT NO.	568-19-01
DATE	JULY 2020
SHEET NO.	E-2 OF E-2