

NESBITT ENGINEERING, INC.

SERVING DEVELOPERS, INDUSTRY, BUSINESS AND GOVERNMENT BY PROVIDING PROVEN SOLUTIONS SINCE 1976

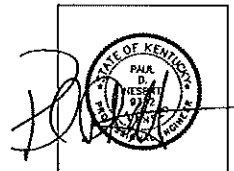
BREATHITT COUNTY WATER DISTRICT

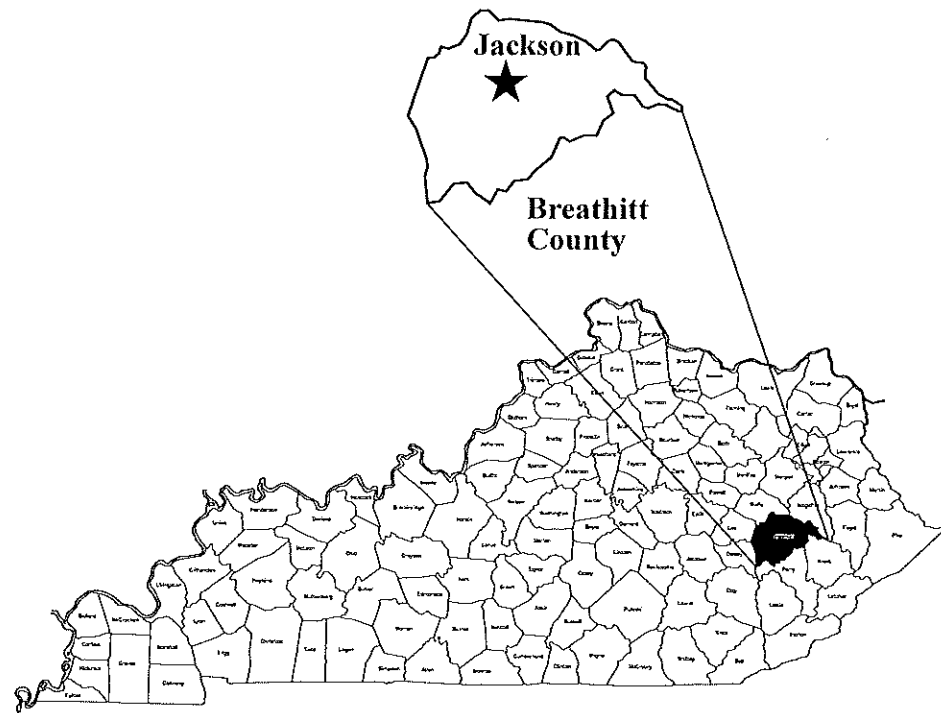
KY 30 EAST & WOLF CREEK WATERLINE EXTENSION PROJECT CONTRACT 1 - WATERLINES

December 2023

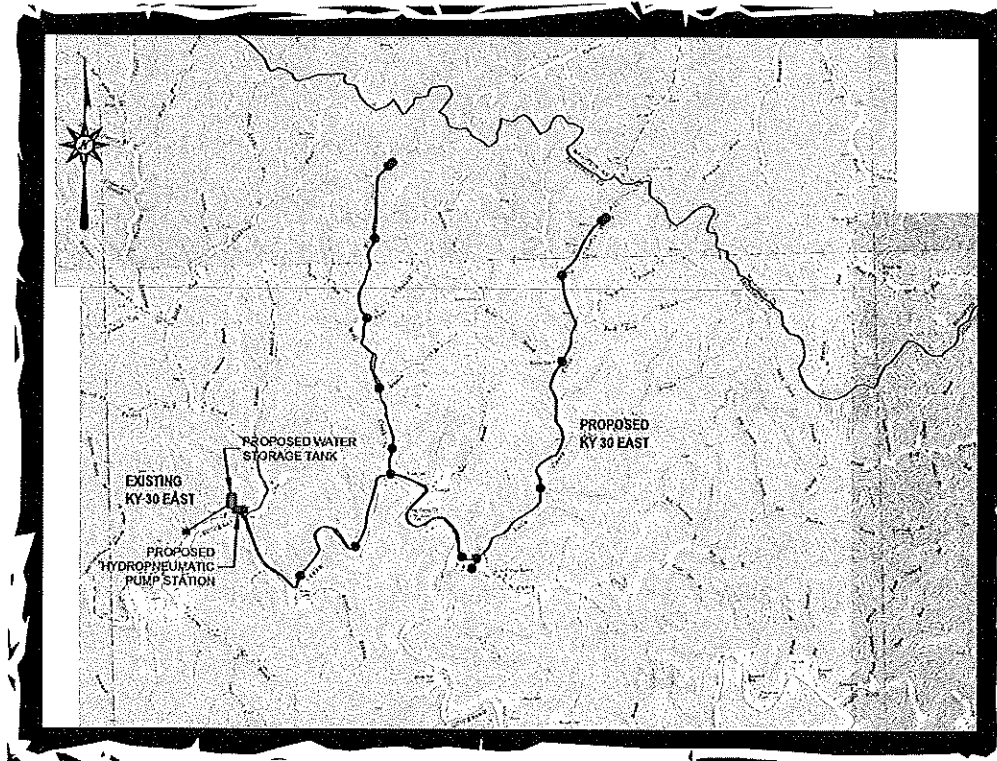
WATER COMMISSIONERS

**BOBBY THORPE JR - CHAIRMAN
SAMMIE TURNER - VICE CHAIRMAN
EVA FUGATE - SECRETARY
CHERYL CAMPBELL - TREASURER
DAVID INGRAM - MEMBER**





KENTUCKY



VICINITY MAP
1" = 4000'

ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR	EXT	EXTERIOR	PRV	PRESSURE RELIEF VALVE
ALUM	ALUMINUM	F.D.	FLOOR DRAIN	PRESS	PRESSURE
APPROX.	APPROXIMATE	F.F.	FINISHED FLOOR	REDUC	REDUCING
BIT	BITUMINOUS	FLG	FLANGE	RED	REDUCER
BLDG	BUILDING	FL	FLOOR LINE	RENF.	REINFORCING
BLK	BLOCK	FLOC	FLOCCULATOR	REFRG.	REFRIGERATOR
B.M.	BENCH MARK	GD	GRADE	RM	ROOM
B.F.L.Y.	BITTERFLY	OSP	DUCTILE IRON PIPE	SAN	SANITARY
BOIT	BOTTOM	H.B.	HOSE BIB	SCHL	SCHEDULE
CHEM	CHEMICAL	H	HEIGHT	SECT	SECTION
C.I.	CAST IRON	H.W.	HOT WATER	SED	SEDIMENTATION
C.I.S.P.	CAST IRON SOIL PIPE	INFL	INFLUENT	SEW	SEWER
E	CENTERLINE	INV.	INVERT	SM	SHEET
CONC.	CONCRETE	LAV	LABORATORY	SOL	SOLUTION
CHLOR	CHLORINE	L	LENGTH	SPEC'S	SPECIFICATION'S
CL	CLEARANCE	LOAD'G	LOADING	SQ.	SQUARE
C.W.	COLD WATER	LONG	LONG	S.S.	STAINLESS STEEL
CU	COPPER	MH	MANHOLE	ST	STEEL TUBE
C.O.	CLEANOUT	M.J.	MECHANICAL JOINT	STL	STEEL
CONT	CONTINUATION	M.N.	MINIMUM	STN.	STAINLESS
DGA	DENSE GRADED AGGREGATE	MTD.	MOUNTED	SURF	SURFACE
D.I.	DUCTILE IRON	MAX.	MAXIMUM	SVCS	SERVICES
DSCH	DISCHARGE	NO.	NUMBER	T	THICK
D.I.M.J.	DUCTILE IRON MECHANICAL JOINT	NPS	NOMINING STEM	T.O.C.	TOP OF CONCRETE
D.I.P.E.	DUCTILE IRON PIPE END	N.T.S.	NOT TO SCALE	TYP.	TYPICAL
D.I.P.	DUCTILE IRON PIPE	O.C.	ON CENTER	TRANS	TRANSITION
DEMO	DEMOLITION	O.D.	OVERALL DIMENSION	VAC	VACUUM
DIAG	DIAGONAL	OPER	OPERATOR	VAL	VALVE
EFFL	EFFLUENT	OP'NG	OPENING	VTR	VENT THRU ROOF
E.F.	EACH FACE	PE	POLYETHYLENE	VERT	VERTICAL
ELC	ELECTRICAL	P.E.	PLAN END	WD	WOOD
EL	ELEVATION	PL	PLATE	W.C.	WATER CLOSET
EQUIP	EQUIPMENT	PROP	PROPOSED	W	WITH
E.W.	EACH WAY	PVC	POLYVINYL CHLORIDE	W.L.	WATER LEVEL
EXIST	EXISTING	PRV	PRESSURE RELIEF VALVE	W.S.C.	WATER SURFACE ELEVATION
		PRESS	PRESSURE	WWF	WOVEN WIRE FENCE

CALL THE KENTUCKY ONE CALL BEFORE DIGGING:
KENTUCKY UNDERGROUND PROTECTION, INC. 1-800-752-6007
 A FEDERAL LAW NOW IN EFFECT STATES THAT ANY PERSON WHO ENGAGES IN EXCAVATION ACTIVITIES WITHOUT FIRST USING AN AVAILABLE ONE-CALL NOTIFICATION SYSTEM TO DETERMINE LOCATIONS OF UNDERGROUND FACILITIES; OR WITHOUT HEEDING LOCATION INFORMATION OR MARKINGS AND SUBSEQUENTLY DAMAGES A PIPELINE FACILITY SHALL BE SUBJECT TO A FINE, IMPRISONMENT, OR BOTH. THE LAW ALSO STATES THAT OSHA MAY BE NOTIFIED OF ANY ACCIDENT CAUSED BY AN EXCAVATOR.
NATIONAL ONE-CALL REFERRAL NUMBER 1-800-258-0808

GENERAL NOTES:

- DIMENSIONS OF EXISTING STRUCTURES, EQUIPMENT, ETC. SHALL BE FIELD CONFIRMED BY THE CONTRACTOR. WHERE CRITICAL DIMENSIONS FOR INSTALLATION OF PROPOSED EQUIPMENT ARE INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL CONFIRM THESE DIMENSIONS FOR ACTUAL EQUIPMENT FURNISHED. ALL KNOWN DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER.
- THE CONTRACTOR SHALL USE ALL POSSIBLE CARE DURING EXCAVATION ON THIS PROJECT SO AS NOT TO DISTURB ANY EXISTING UTILITY WHETHER SHOWN ON PLANS OR NOT. ANY UTILITY DISTURBED OR DAMAGED BY THE CONTRACTOR DURING HIS CONSTRUCTION OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR AT NO EXTRA COST TO THE OWNER.
- THE CONTRACTOR SHALL CONFINE ALL CONSTRUCTION ACTIVITY TO THE AREA WITHIN 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.
- THE CONTRACTOR MUST CONTACT ALL UTILITY OWNERS AND HAVE THEM FIELD LOCATE THEIR EXISTING LINES PRIOR TO ANY CONSTRUCTION ACTIVITY.
- EFFORTS HAVE BEEN MADE TO INDICATE ACCURATE 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 THE 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 THIS PROJECT SO AS NOT TO DISTURB OR DAMAGE ANY EXISTING UTILITY OR STRUCTURE NOT SCHEDULED FOR DEMOLITION WHETHER DEPICTED OR NOT BY 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 OR BETTER THAN THAT WHICH EXISTED PRIOR TO BEING DAMAGED.
- 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 30" (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 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.

CONSTRUCTION ON STATE RIGHT-OF-WAY NOTES:

- WATER MAIN/SEWER 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 THE 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 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, REFILLS AND EXCAVATIONS SHALL BE KEPT SHAPED 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 SMOOTHNESS 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 BUSINESSES AND RESIDENCES ALONG THE ROUTE OF THE PROPOSED WATER MAIN/SEWER LINE CONSTRUCTION MUST HAVE ACCESS TO THEIR PROPERTIES AT ALL TIMES DURING CONSTRUCTION.
- PROTECTION OF EXISTING DRAINAGE CULVERTS: ALL LOCATIONS WHERE THE PROPOSED WATER MAIN/SEWER LINE 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.

SHEET INDEX

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| C-5 | KY 30 EAST STA 180+00 TO STA 240+00 |
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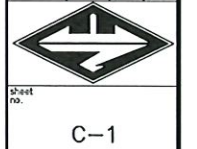
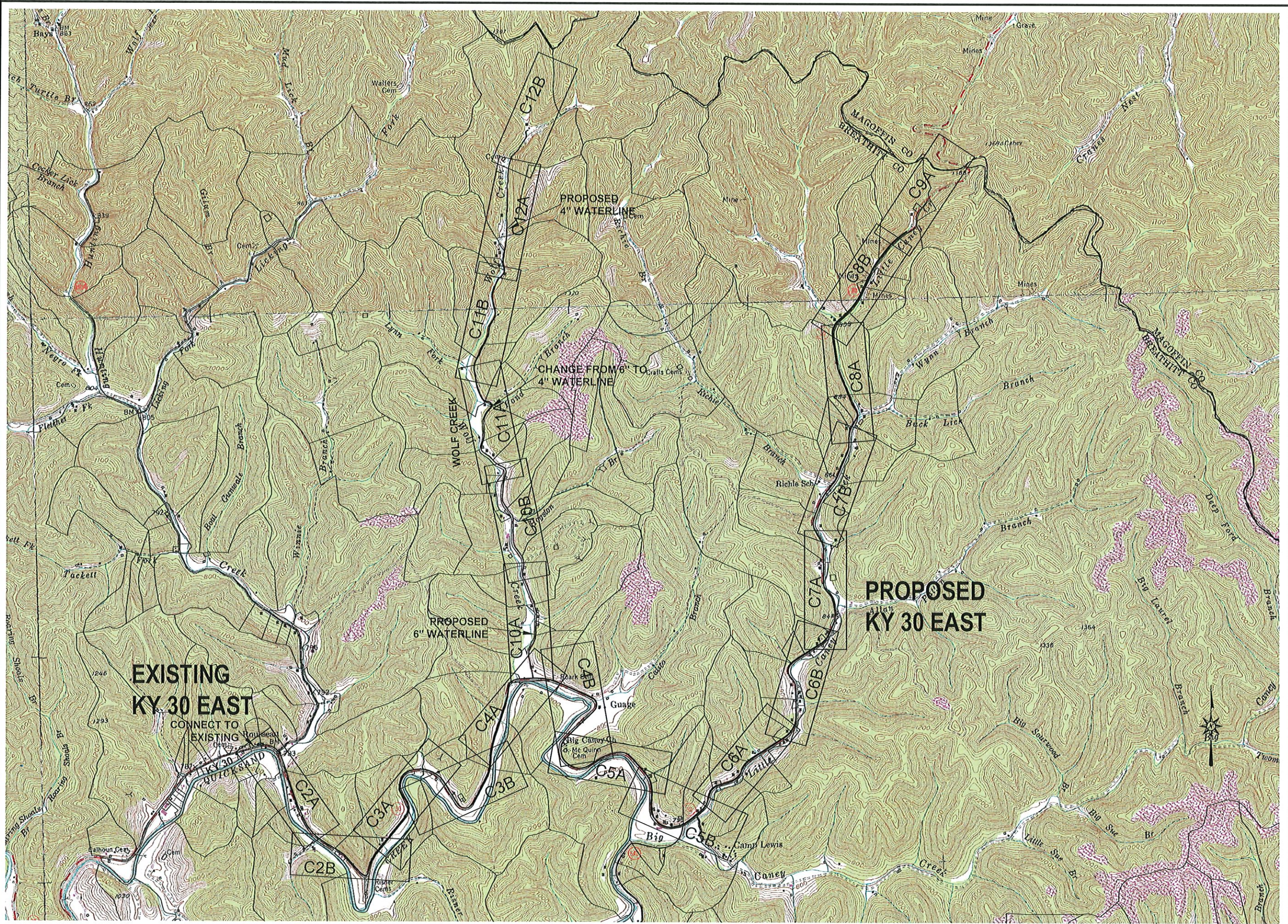


nesbitt
engineering, inc.

227 N. Upper Street
 Lexington, Kentucky
 40507-1018
 Tel (502) 258-8111
 Fax (502) 259-8717



LAST PLOTTED ON 12/19/2023 BY: STON, MAT DRAWING FILE LOCATION: P:\PROJECTS\98-48 WOLF CREEK\03 DESIGN\CONTRACT 1\WOLF2.DWG



nesbitt engineering, inc.
KY 30 EAST & WOLF CREEK WATERLINE EXTENSION
BREATHTHIT COUNTY WATER DISTRICT
MMS 998-48 NTS
NOVEMBER 17, 2022

KY 30 EAST & WOLF CREEK WATERLINE EXTENSION
CONTRACT 1 WATERLINES
BREATHTHIT COUNTY WATER DISTRICT
BREATHTHIT COUNTY, KY
SHEET INDEX



NOTE: PROPERTY INFORMATION PROVIDED BY THE BREATHITT COUNTY PROPERTY VALUATION OFFICE. PROPERTY LINES ARE APPROXIMATE AND DO NOT REFLECT AN ACTUAL FIELD SURVEY.

NOTE: PER KTC-DOH REQUIREMENTS THERE MUST BE A MINIMUM COVER OF 42" IN STATE ROW. THERE SHALL BE NO SURFACE APPURTENANCES IN THE DITCHLINE.

LEGEND	
NEW	EXISTING

KY 30 EAST & WOLF CREEK WATERLINE EXTENSION
 CONTRACT 1 WATERLINES
 BREATHITT COUNTY WATER DISTRICT
 BREATHITT COUNTY, KY

KY 30 EAST STA 0+00 - STA 60+00



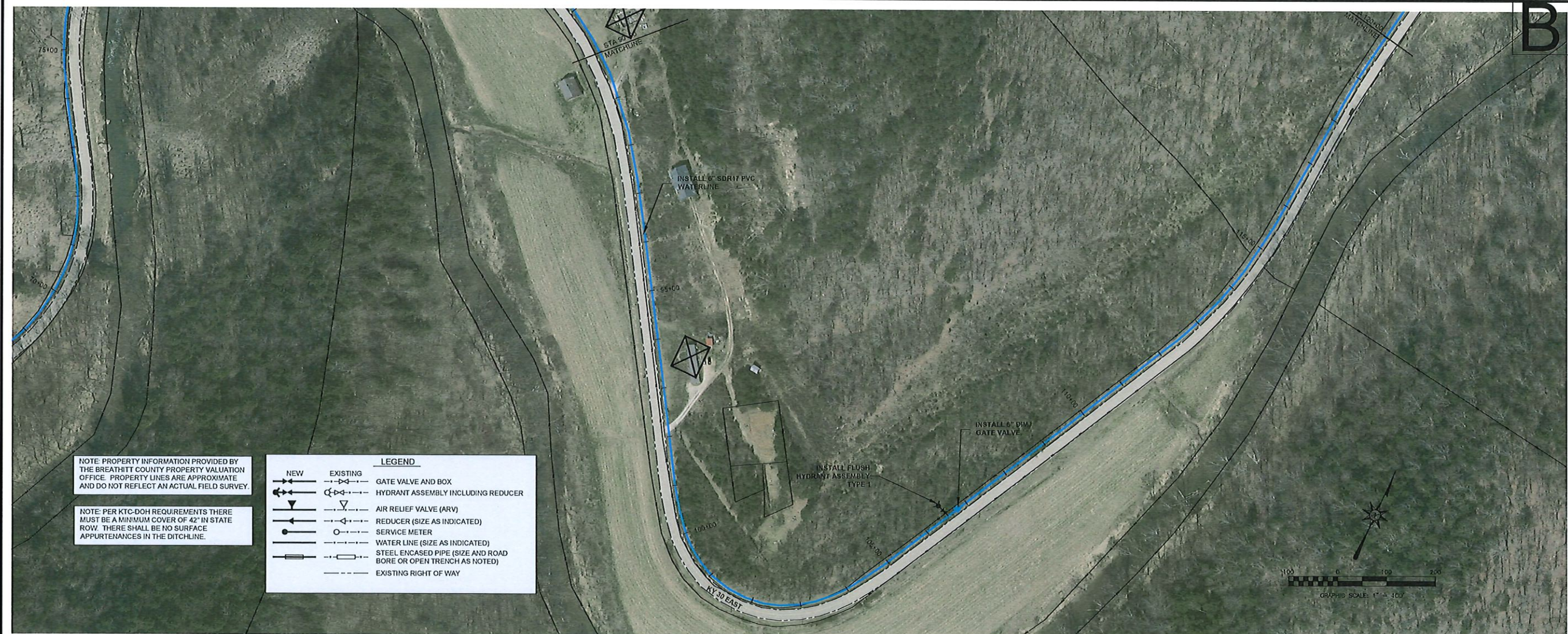
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KY 30 EAST & WOLF CREEK WATERLINE EXTENSION
 BREATHITT COUNTY WATER DISTRICT

drawn by: MMS
 checked by: JMS
 date: NOVEMBER 17, 2022
 sheet no. as shown



LAST PLOTTED ON: 8/25/2022 BY: STEEN, MAT



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LEGEND	
	NEW
	EXISTING
	GATE VALVE AND BOX
	HYDRANT ASSEMBLY INCLUDING REDUCER
	AIR RELIEF VALVE (ARV)
	REDUCER (SIZE AS INDICATED)
	SERVICE METER
	WATER LINE (SIZE AS INDICATED)
	STEEL ENCASED PIPE (SIZE AND ROAD BORE OR OPEN TRENCH AS NOTED)
	EXISTING RIGHT OF WAY

KY 30 EAST & WOLF CREEK WATERLINE EXTENSION
 CONTRACT 1 WATERLINES
 BREATHITT COUNTY WATER DISTRICT
 BREATHITT COUNTY, KY

KY 30 EAST STA 60+00 - STA 120+00



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KY 30 EAST & WOLF CREEK WATERLINE EXTENSION
 BREATHITT COUNTY WATER DISTRICT

Project: 99B-48
 Status: AS SHOWN

Drawn by: MMS
 Date: NOVEMBER 17, 2022



Sheet No. C-3

LAST PLOTTED ON: 4/11/2023 BY: STICK, MAT



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LEGEND	
	NEW
	EXISTING
	GATE VALVE AND BOX
	HYDRANT ASSEMBLY INCLUDING REDUCER
	AIR RELIEF VALVE (ARV)
	REDUCER (SIZE AS INDICATED)
	SERVICE METER
	WATER LINE (SIZE AS INDICATED)
	STEEL ENCASED PIPE (SIZE AND ROAD BORE OR OPEN TRENCH AS NOTED)
	EXISTING RIGHT OF WAY

KY 30 EAST & WOLF CREEK WATERLINE EXTENSION
 CONTRACT 1 WATERLINES
 BREATHITT COUNTY WATER DISTRICT
 BREATHITT COUNTY, KY

KY 30 EAST STA 120+00 - STA 180+00



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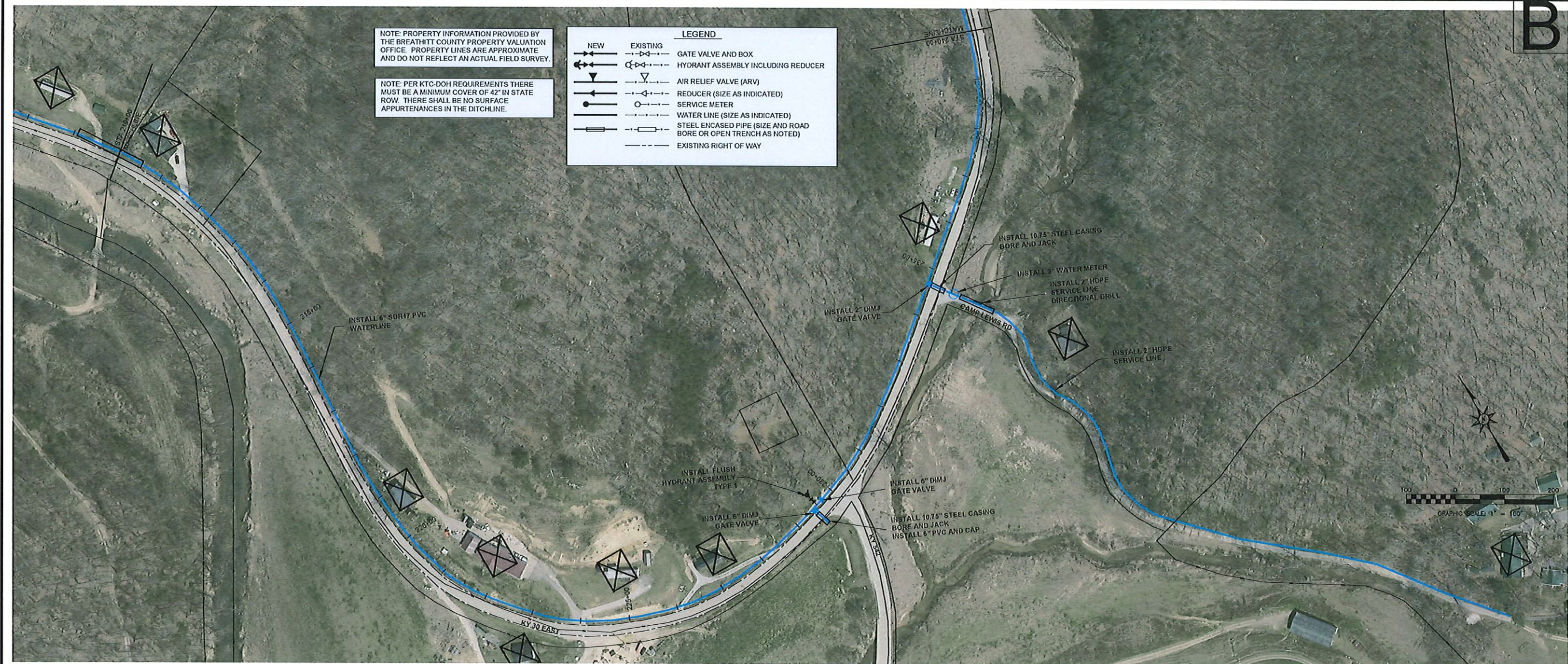
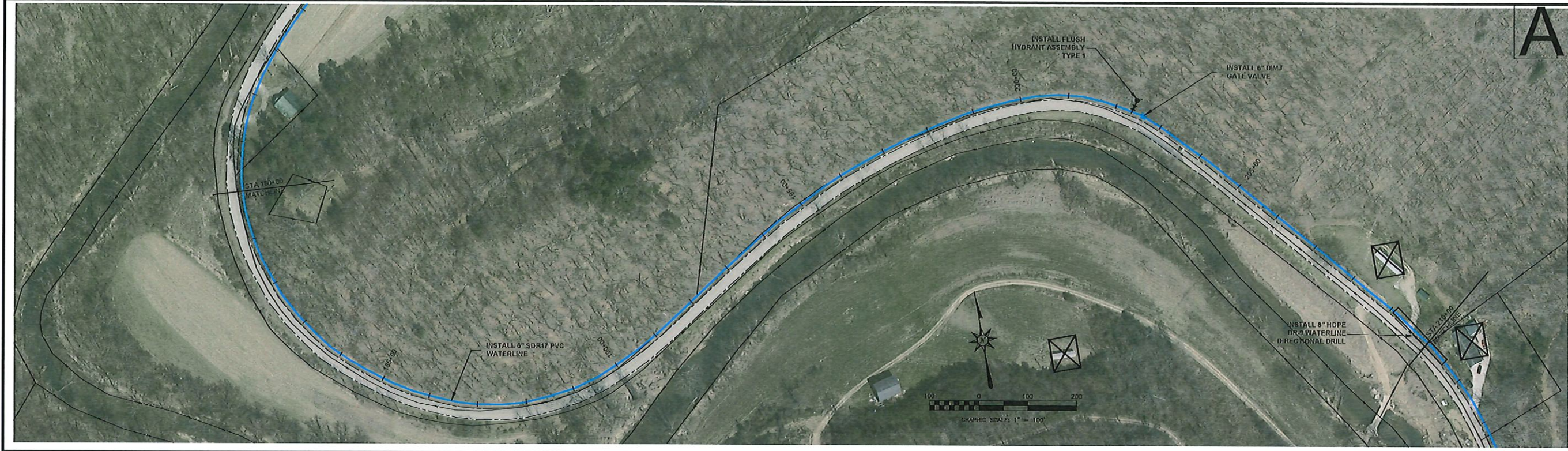
KY 30 EAST & WOLF CREEK WATERLINE EXTENSION
 BREATHITT COUNTY WATER DISTRICT

drawn by: MMS
 checked by: JMS
 date: NOVEMBER 17, 2022

project: 998-48
 sheet: AS SHOWN



LAST PLOTTED ON: 4/11/2023 BY: STEEN, MTT DRAWING FILE LOCATION: P:\PROJECTS\1998-48 WOLF CREEK\AS SHOWN\CONTRACT 1\WATERLINES



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LEGEND	
	NEW
	EXISTING
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	AIR RELIEF VALVE (ARV)
	REDUCER (SIZE AS INDICATED)
	SERVICE METER
	WATER LINE (SIZE AS INDICATED)
	STEEL ENCASED PIPE (SIZE AND BORE OR OPEN TRENCH AS NOTED)
	EXISTING RIGHT OF WAY

KY 30 EAST & WOLF CREEK WATERLINE EXTENSION
 CONTRACT 1 WATERLINES
 BREATHITT COUNTY WATER DISTRICT
 BREATHITT COUNTY, KY
 KY 30 EAST STA 180+00 - STA 240+00



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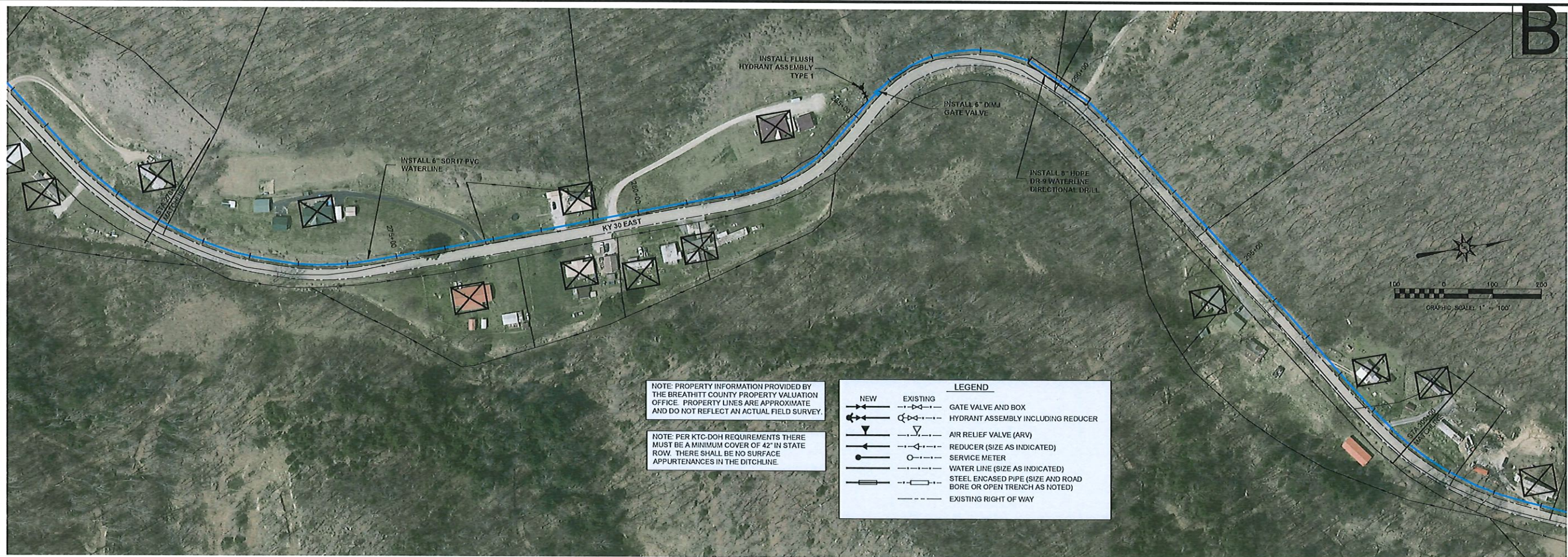
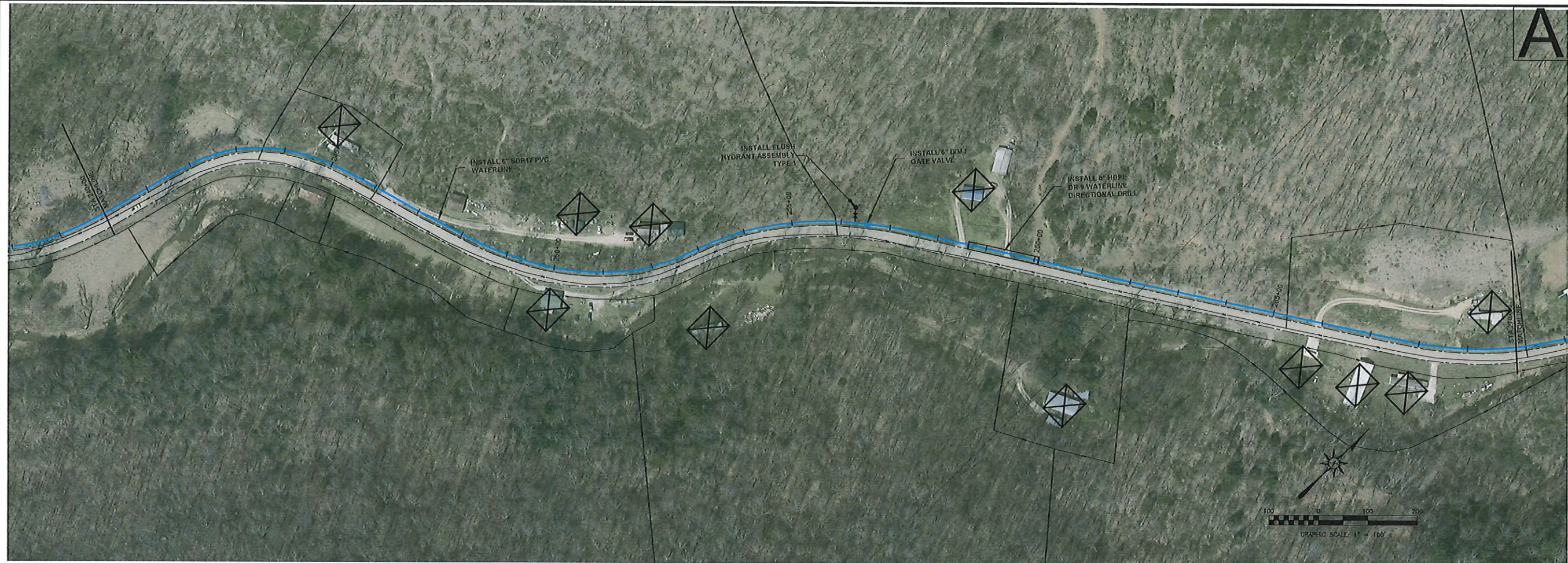
KY 30 EAST & WOLF CREEK WATERLINE EXTENSION
 BREATHITT COUNTY WATER DISTRICT

drawn by: MMS
 checked by: MMS
 date: NOVEMBER 17, 2022
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	NEW
	EXISTING
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	EXISTING RIGHT OF WAY

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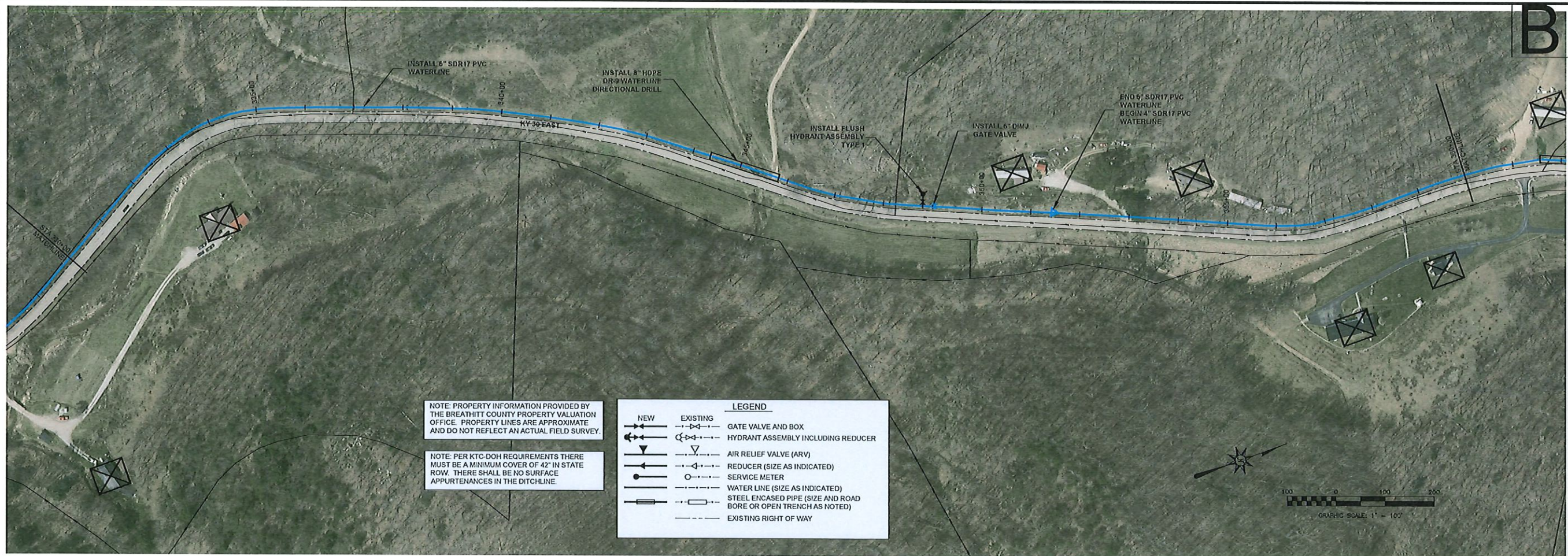
KY 30 EAST & WOLF CREEK WATERLINE EXTENSION
BREATHITT COUNTY WATER DISTRICT

drawn by: MMS
checked by: 988-48
date: NOVEMBER 17, 2022

STATE OF KENTUCKY
PAUL NESBITT
9382
LICENSED PROFESSIONAL ENGINEER

KY 30 EAST & WOLF CREEK WATERLINE EXTENSION
CONTRACT 1 WATERLINES
BREATHITT COUNTY WATER DISTRICT
BREATHITT COUNTY, KY

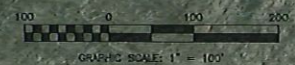
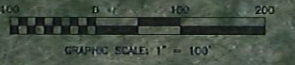
KY 30 EAST STA 240+00 - STA 300+00



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LEGEND	
NEW	EXISTING



KY 30 EAST & WOLF CREEK WATERLINE EXTENSION
 CONTRACT 1 WATERLINES
 BREATHTT COUNTY WATER DISTRICT
 BREATHTT COUNTY, KY

KY 30 EAST STA 300+00 - STA 360+00



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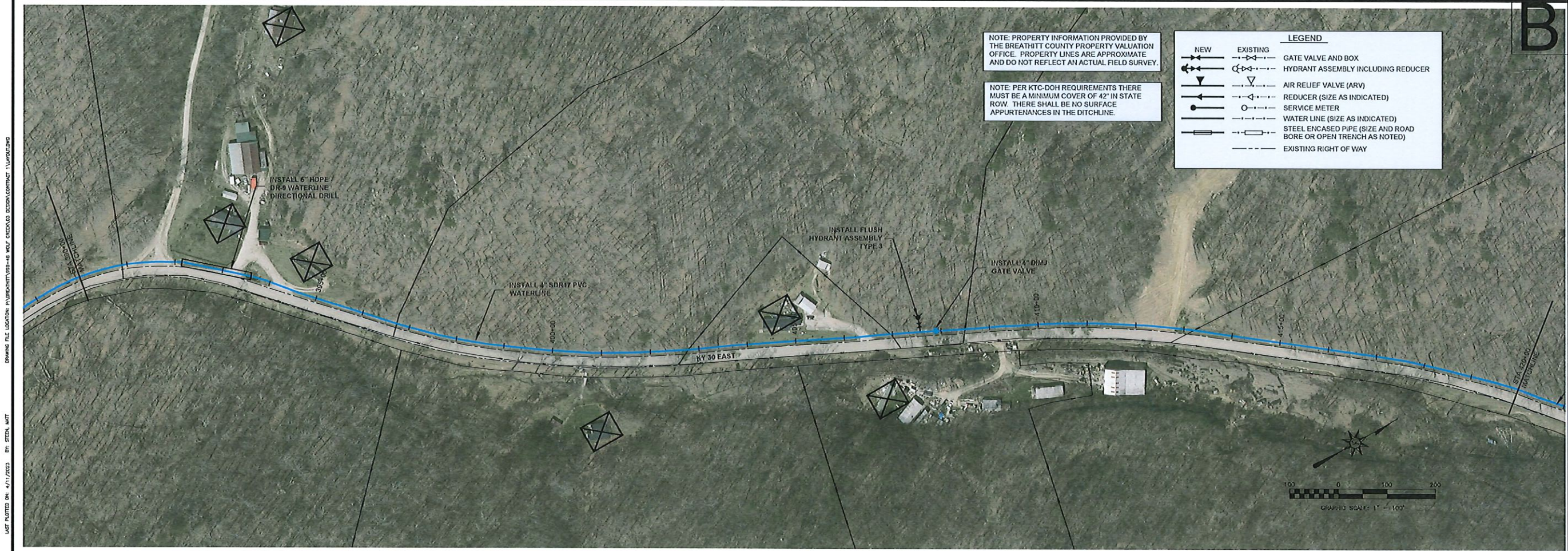
KY 30 EAST & WOLF CREEK WATERLINE EXTENSION
 BREATHTT COUNTY WATER DISTRICT

PROJECT NO. 988-48
 DATE AS SHOWN

DESIGNED BY MMS
 DATE NOVEMBER 17, 2022



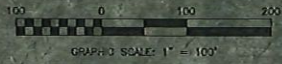
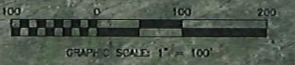
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	EXISTING
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	HYDRANT ASSEMBLY INCLUDING REDUCER
	AIR RELIEF VALVE (ARV)
	REDUCER (SIZE AS INDICATED)
	SERVICE METER
	WATER LINE (SIZE AS INDICATED)
	STEEL ENCASED PIPE (SIZE AND ROAD BORE OR OPEN TRENCH AS NOTED)
	EXISTING RIGHT OF WAY



KY 30 EAST & WOLF CREEK WATERLINE EXTENSION
 CONTRACT 1 WATERLINES
 BREATHTT COUNTY WATER DISTRICT
 BREATHTT COUNTY, KY
 KY 30 EAST STA 360+00 - STA 420+00



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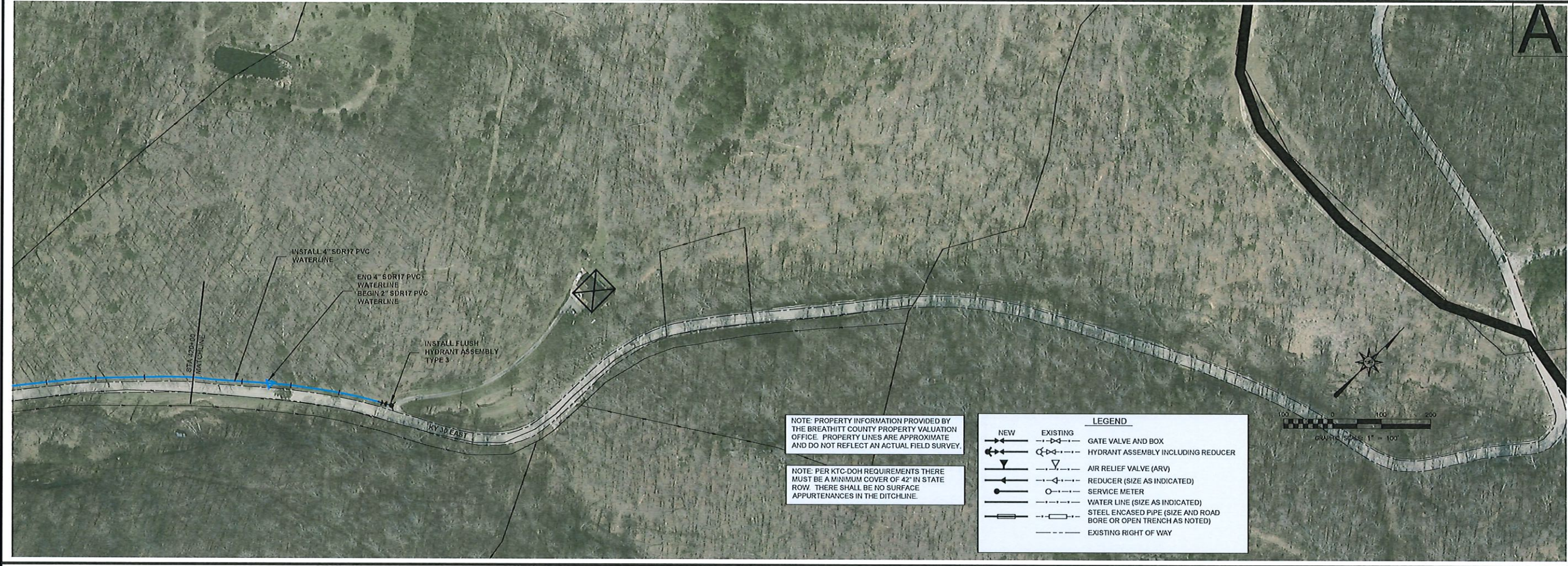
KY 30 EAST & WOLF CREEK WATERLINE EXTENSION
 BREATHTT COUNTY WATER DISTRICT

prepared by: MMS
 checked by: MMS
 date: NOVEMBER 17, 2022

project no.: 998-48
 scale: AS SHOWN



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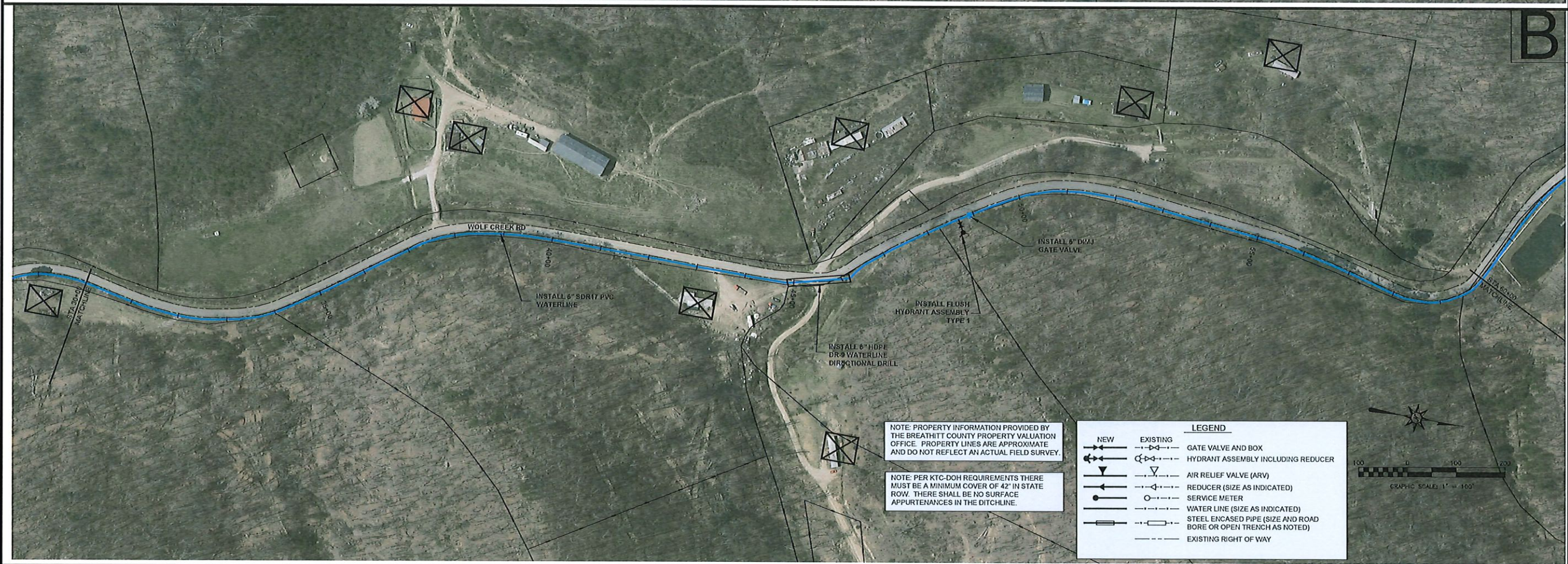
LEGEND	
NEW	EXISTING
(Symbol: solid line with arrow)	(Symbol: dashed line with arrow)
(Symbol: circle with cross)	(Symbol: circle with cross)
(Symbol: inverted triangle)	(Symbol: inverted triangle)
(Symbol: circle with dot)	(Symbol: circle with dot)
(Symbol: circle with dot)	(Symbol: circle with dot)
(Symbol: solid line)	(Symbol: solid line)
(Symbol: solid line)	(Symbol: solid line)
(Symbol: dashed line)	(Symbol: dashed line)
(Symbol: dashed line)	(Symbol: dashed line)



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B

	nesbitt engineering, inc. <small>providing proven solutions since 1978</small>		KY 30 EAST & WOLF CREEK WATERLINE EXTENSION BREATHITT COUNTY WATER DISTRICT	
	drawn by: MNS checked by: MNS date: NOVEMBER 17, 2022		project no.: 998-48 sheet no.: AS SHOWN	
KY 30 EAST & WOLF CREEK WATERLINE EXTENSION CONTRACT 1 WATERLINES BREATHITT COUNTY WATER DISTRICT BREATHITT COUNTY, KY			KY 30 EAST STA 420+00 - STA 424+00	



NOTE: PROPERTY INFORMATION PROVIDED BY THE BREATHITT COUNTY PROPERTY VALUATION OFFICE. PROPERTY LINES ARE APPROXIMATE AND DO NOT REFLECT AN ACTUAL FIELD SURVEY.

NOTE: PER KTC-DOH REQUIREMENTS THERE MUST BE A MINIMUM COVER OF 42" IN STATE ROW. THERE SHALL BE NO SURFACE APPURTENANCES IN THE DITCHLINE.

LEGEND	
	NEW WATER LINE (SIZE AS INDICATED)
	EXISTING WATER LINE (SIZE AS INDICATED)
	STEEL ENCASED PIPE (SIZE AND ROAD BORE OR OPEN TRENCH AS NOTED)
	EXISTING RIGHT OF WAY
	GATE VALVE AND BOX
	HYDRANT ASSEMBLY INCLUDING REDUCER
	AIR RELIEF VALVE (ARV)
	REDUCER (SIZE AS INDICATED)
	SERVICE METER



WOLF CREEK STA 0+00 - STA 60+00

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KY 30 EAST & WOLF CREEK WATERLINE EXTENSION
 BREATHITT COUNTY WATER DISTRICT

BREATHITT COUNTY, KY

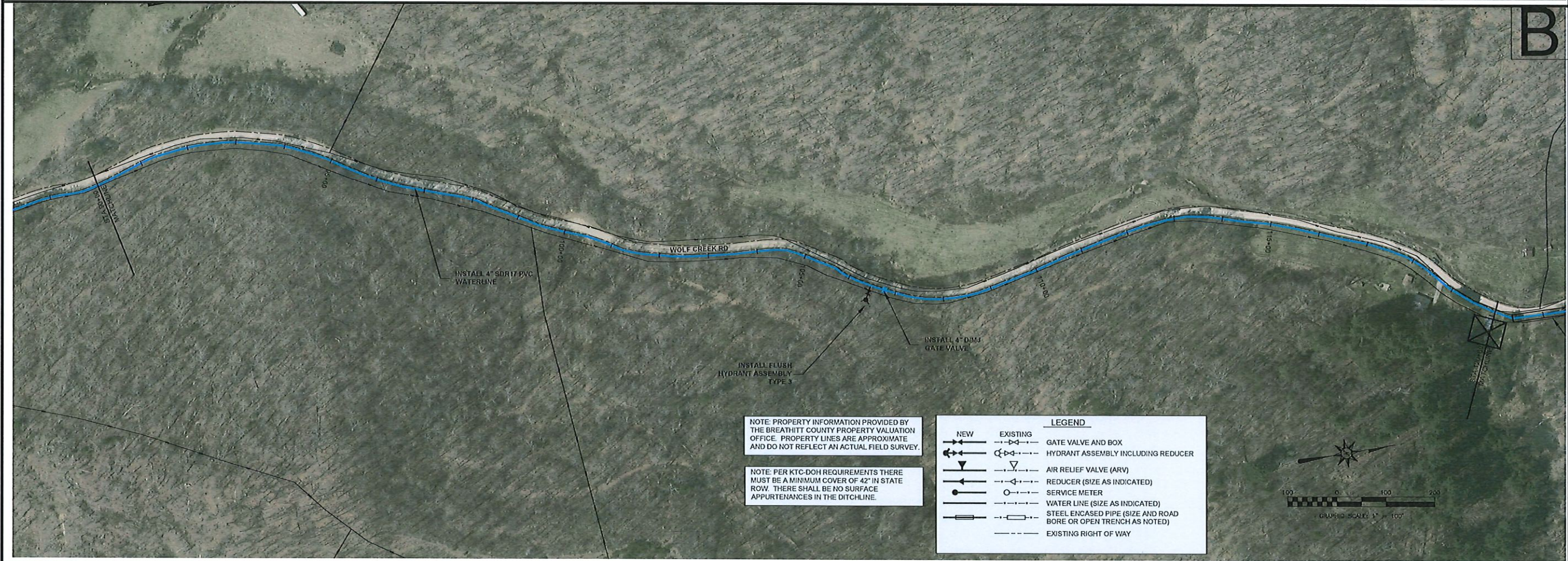


drawn by: MMS
 date: NOVEMBER 17, 2022
 project no.: 998-48
 sheet: AS SHOWN



LAST PLOTTED ON: 12/19/2023 BY: STEEN, WMT DRAWING FILE LOCATION: P:\PROJECTS\998-48 WOLF CREEK\AS DESIGN\CONTRACT 1\LANDSCAPING

LAST PLOTTED ON: 4/11/2023 BY: STEW, MNT DRAWING FILE LOCATION: P:\PROJECTS\988-48 WOLF CREEK\3D DESIGN\CONTRACT PLAN\DWG12.DWG



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NOTE: PER KYC-DOH REQUIREMENTS THERE MUST BE A MINIMUM COVER OF 42" IN STATE ROW. THERE SHALL BE NO SURFACE APPURTENANCES IN THE DITCHLINE.

LEGEND	
	NEW WATER LINE (SIZE AS INDICATED)
	EXISTING WATER LINE (SIZE AS INDICATED)
	GATE VALVE AND BOX
	HYDRANT ASSEMBLY INCLUDING REDUCER
	AIR RELIEF VALVE (ARV)
	REDUCER (SIZE AS INDICATED)
	SERVICE METER
	WATER LINE (SIZE AS INDICATED)
	STEEL ENCASED PIPE (SIZE AND ROAD BORE OR OPEN TRENCH AS NOTED)
	EXISTING RIGHT OF WAY



A

B

KY 30 EAST & WOLF CREEK WATERLINE EXTENSION
 CONTRACT 1 WATERLINES
 BREATHITT COUNTY WATER DISTRICT
 BREATHITT COUNTY, KY

WOLF CREEK STA 60+00 - STA 120+00



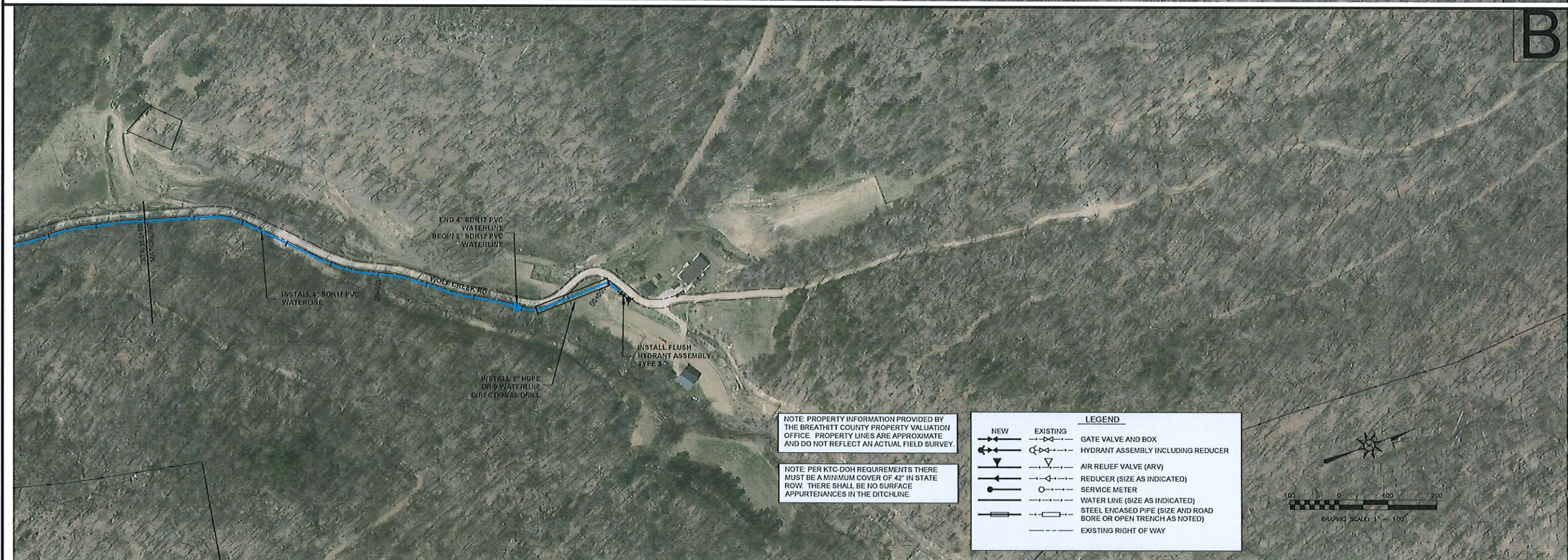
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KY 30 EAST & WOLF CREEK WATERLINE EXTENSION
 BREATHITT COUNTY WATER DISTRICT

drawn by: MMS
 date: NOVEMBER 17, 2022
 sheet no. AS SHOWN



C-11



NOTE: PROPERTY INFORMATION PROVIDED BY THE BREATHITT COUNTY PROPERTY VALUATION OFFICE. PROPERTY LINES ARE APPROXIMATE AND DO NOT REFLECT AN ACTUAL FIELD SURVEY.

NOTE: PER KTC-DOH REQUIREMENTS THERE MUST BE A MINIMUM COVER OF 42" IN STATE ROW. THERE SHALL BE NO SURFACE APPURTENANCES IN THE DITCHLINE.

LEGEND	
	NEW
	EXISTING
	GATE VALVE AND BOX
	HYDRANT ASSEMBLY INCLUDING REDUCER
	AIR RELIEF VALVE (ARV)
	REDUCER (SIZE AS INDICATED)
	SERVICE METER
	WATER LINE (SIZE AS INDICATED)
	STEEL ENCASED PIPE (SIZE AND ROAD BORE OR OPEN TRENCH AS NOTED)
	EXISTING RIGHT OF WAY



KY 30 EAST & WOLF CREEK WATERLINE EXTENSION
 CONTRACT 1 WATERLINES
 BREATHITT COUNTY WATER DISTRICT
 BREATHITT COUNTY, KY

WOLF CREEK STA 120+00 - STA 160+50



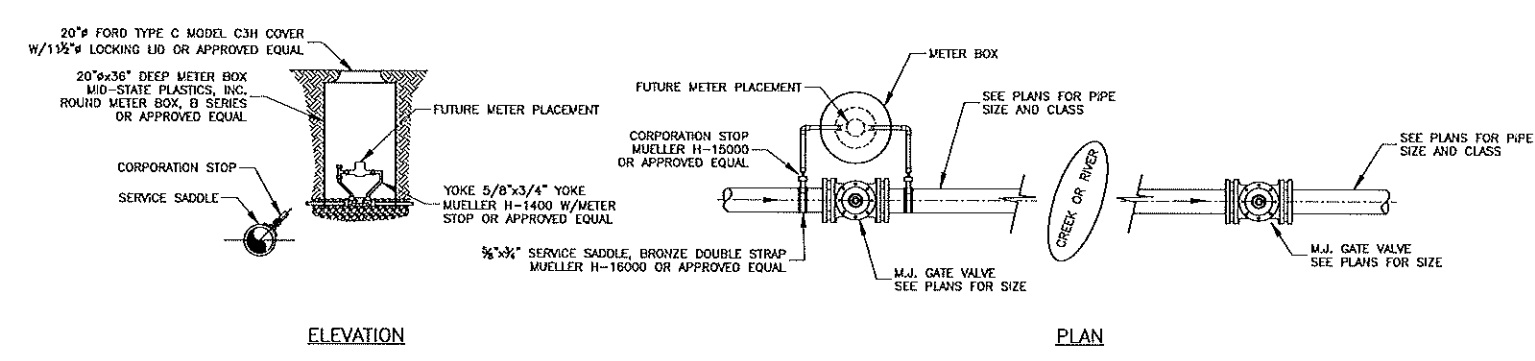
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KY 30 EAST & WOLF CREEK WATERLINE EXTENSION
 BREATHITT COUNTY WATER DISTRICT

DESIGNED BY: MNS
 DRAWN BY: MNS
 CHECKED BY: AS SHOWN
 DATE: NOVEMBER 17, 2022



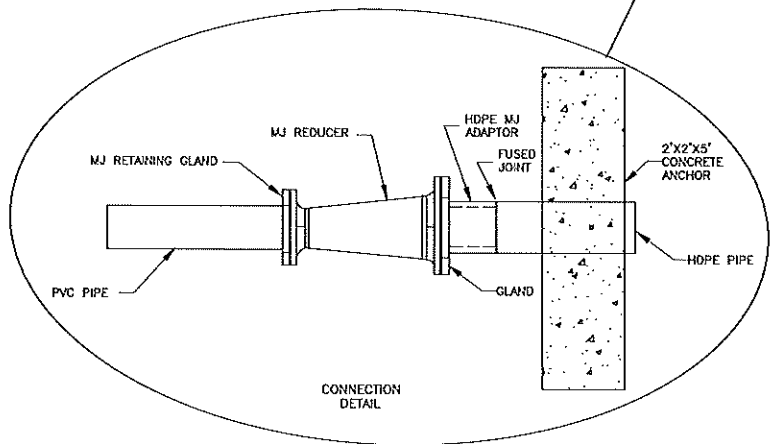
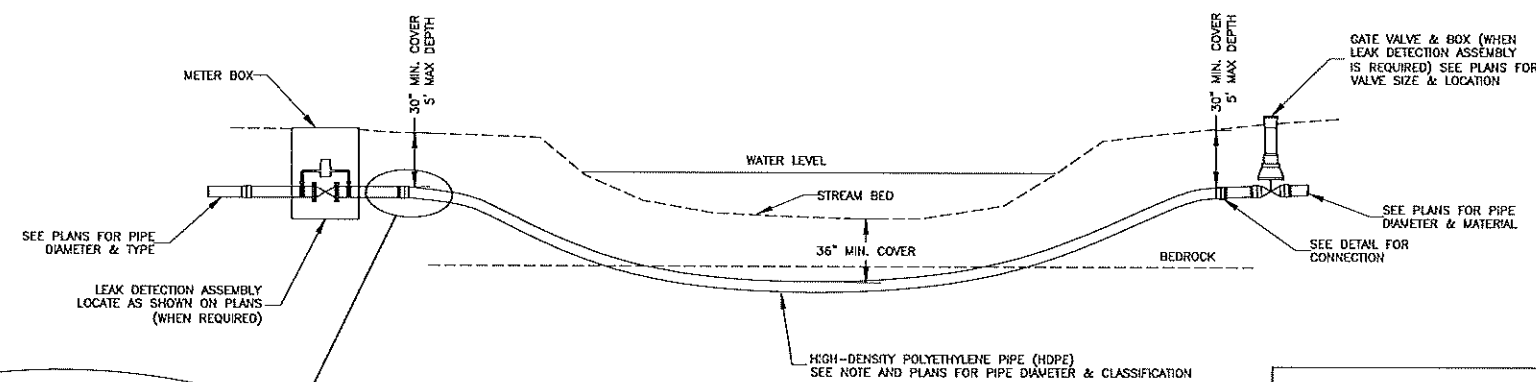
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ELEVATION

PLAN

LEAK DETECTION ASSEMBLY
NOT TO SCALE



CREEK AND RIVER CROSSING
DETAILS

NOT TO SCALE

- NOTES:
1. CONNECTION OF THE HDPE TO THE PVC OR DUCTILE IRON WATERLINE SHALL BE NO DEEPER THAN 5 FEET FROM THE GROUND ELEVATION.
 2. DIRECTIONAL BORE SHALL BE MADE IN BED ROCK WITH A MIN DEPTH OF 36".
 3. WHEN USING HDPE THE PIPE SHALL BE SIZED UP ONE PIPE SIZE TO ALLOW THE I.D. OF THE HDPE TO EQUAL THE I.D. OF THE CONNECTING WATERLINE.
 4. PIPE SHALL BE DRILLED INTO SOLID BEDROCK WITH A MIN. COVER OF 36".
 5. USE ANGLED FITTINGS AS NECESSARY TO MAKE CONNECTION BETWEEN PIPES.
 6. ALL DRILLING MUD MUST BE CAPTURED AND DISPOSED OF OFF SITE IN A PROPER MANNER.

PROVISIONS

KY 30 EAST & WOLF CREEK WATERLINE EXTENSION
BREATHITT COUNTY WATER DISTRICT
1137 Main Street
Jackson, KY 41339

DIRECTIONAL DRILLING DETAILS

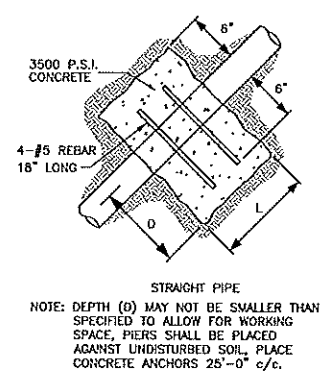
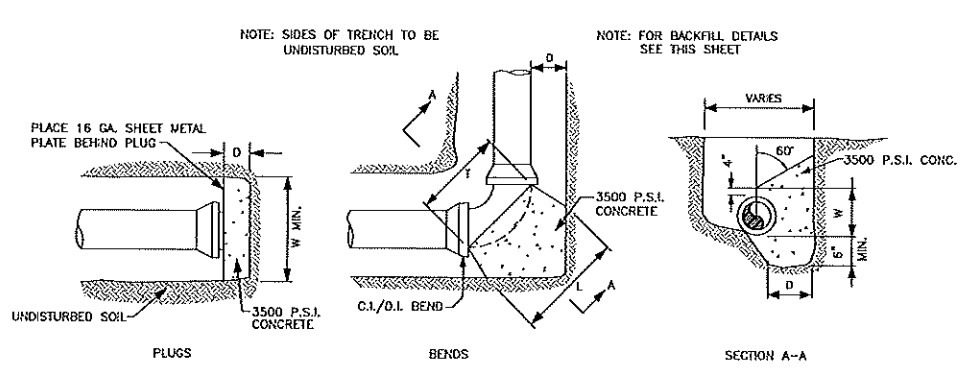


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KY 30 EAST & WOLF CREEK WATERLINE EXTENSION
BREATHITT COUNTY WATER DISTRICT

PROJECT NO. 998.48
DATE 6/1/2022

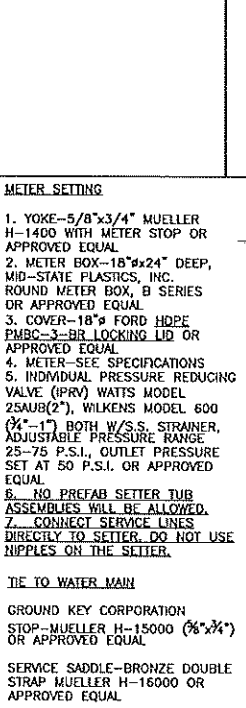
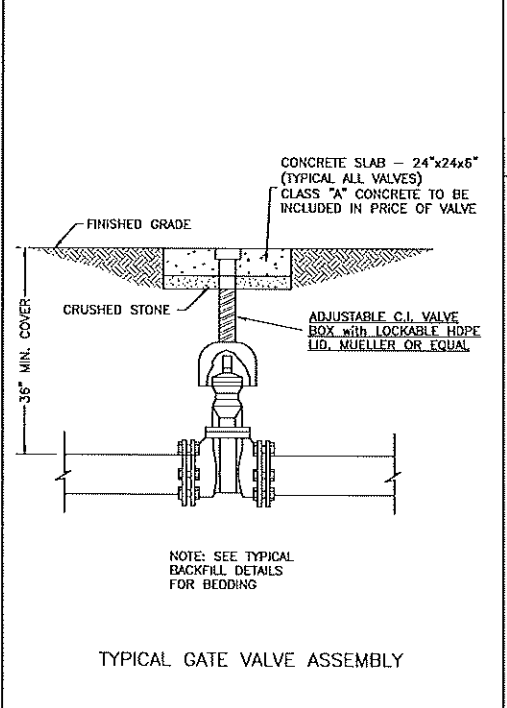
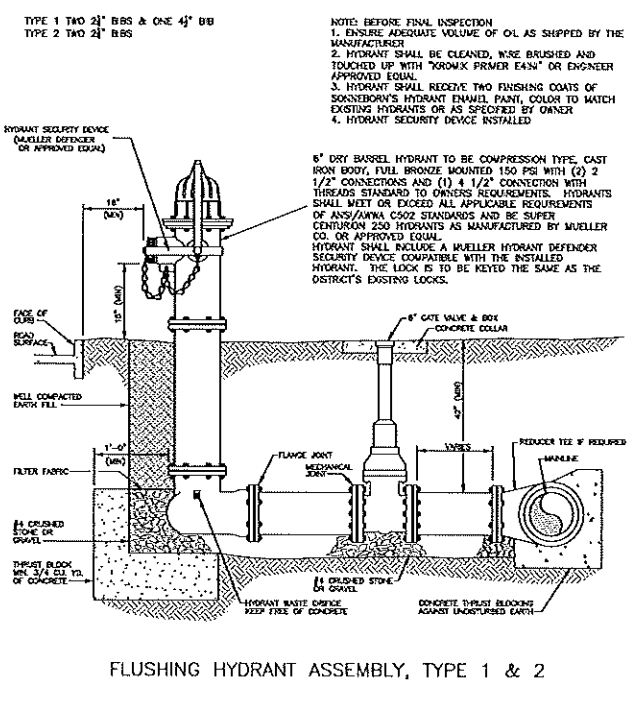
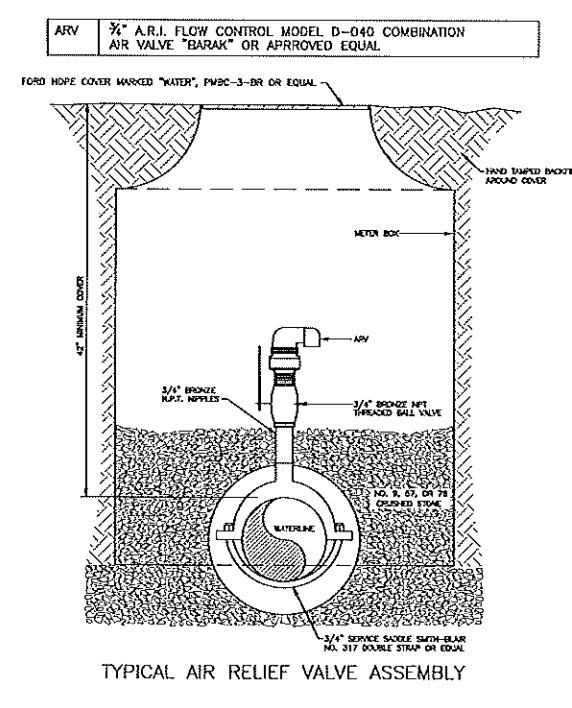
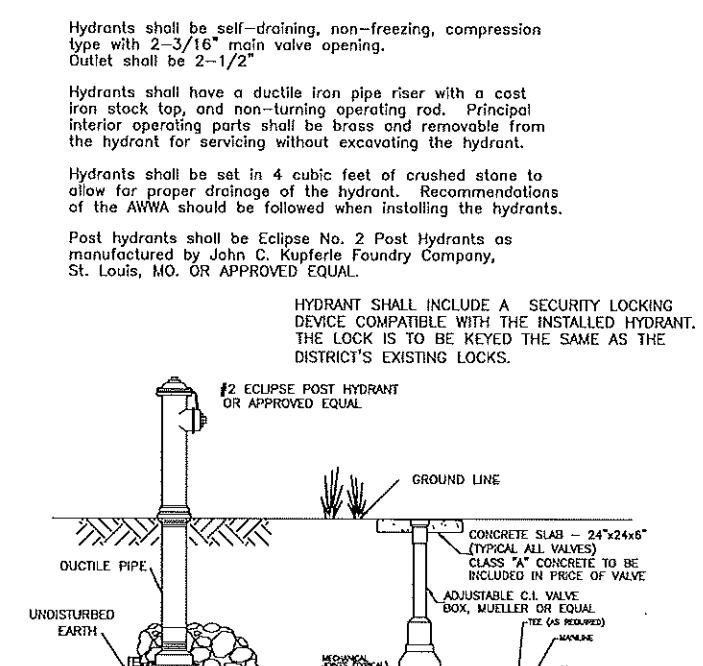
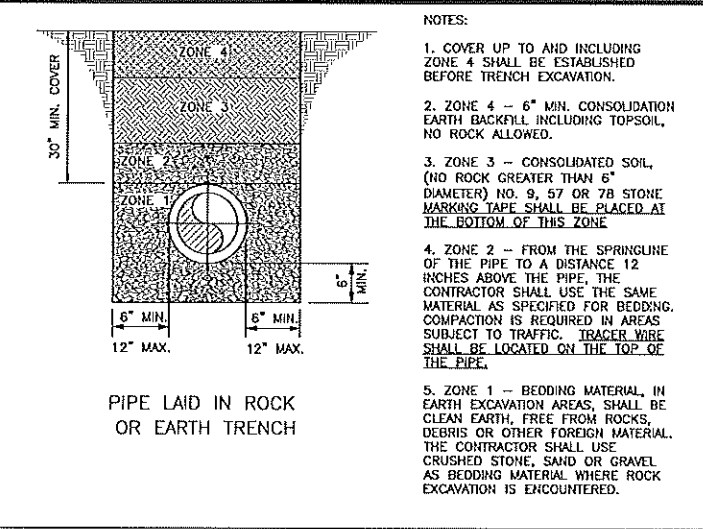
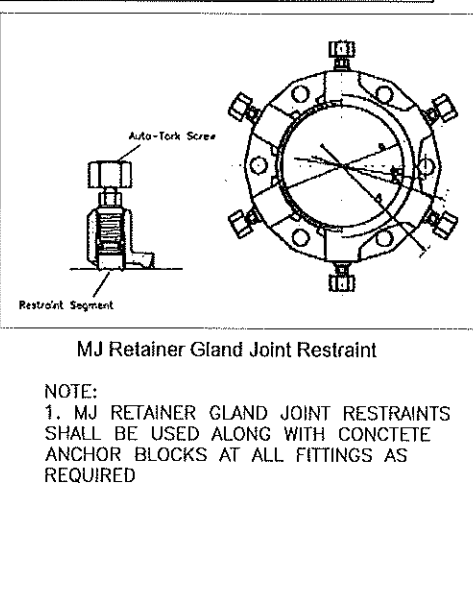
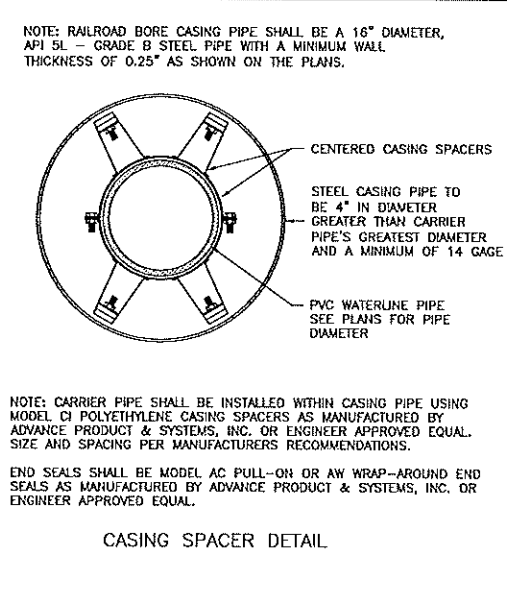
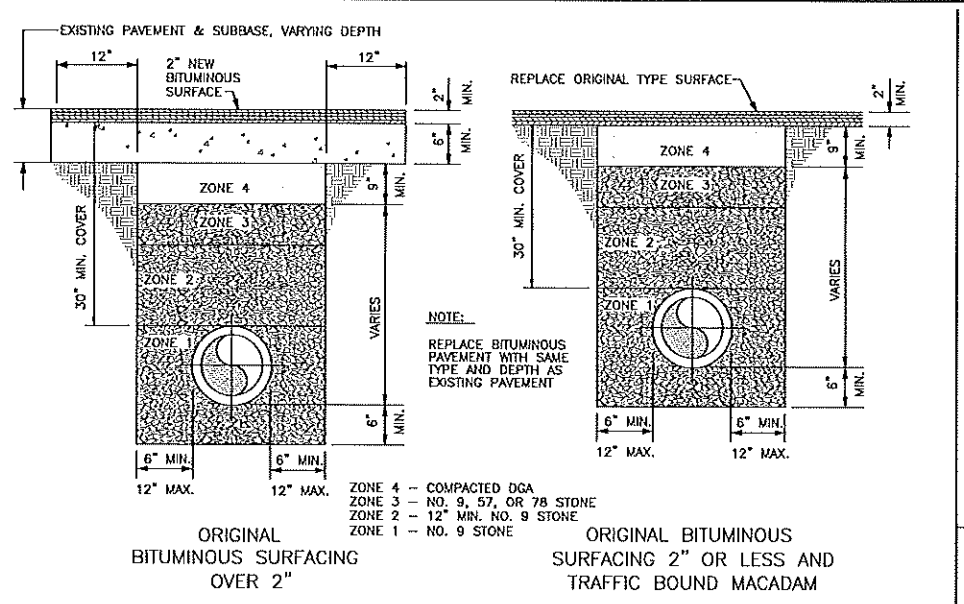
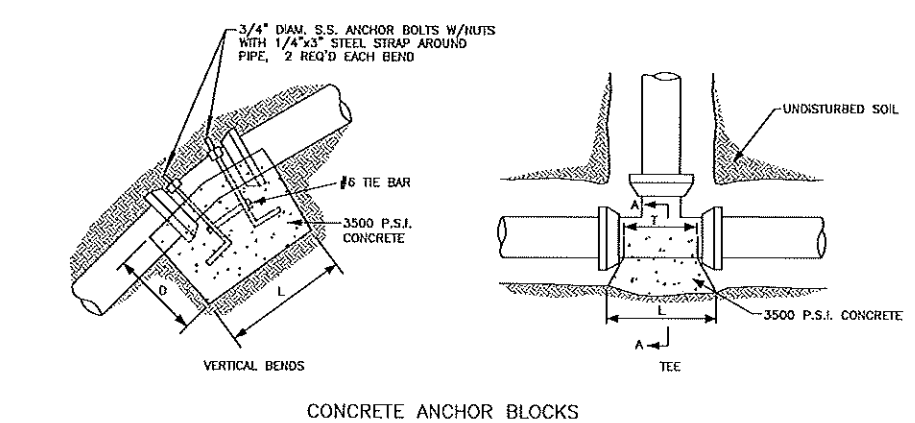




DIMENSIONS FOR THRUST AND ANCHOR BLOCKS

PIPE SIZE	PLUGS													
	3"	4"	6"	8"	10"	12"	14"	18"	24"	EIGHT BEND (45°), 1/16 BEND (22-1/2°)				
D	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"	6"
L&W	18"	18"	20"	22"	24"	26"	28"	32"	36"	18"	18"	20"	22"	24"
D	6"	6"	6"	6"	6"	6"	6"	6"	6"	QUARTER BEND (90°)				
L	14"	16"	18"	20"	22"	24"	26"	30"	36"	14"	16"	18"	20"	22"
T	12"	14"	16"	18"	20"	22"	24"	28"	34"	12"	14"	16"	18"	20"
W	6"	8"	12"	14"	16"	18"	20"	24"	30"	6"	8"	12"	14"	16"
D	6"	6"	6"	6"	6"	6"	6"	6"	6"	VERTICAL BEND & STRAIGHT PIPE				
L	18"	21"	24"	27"	30"	33"	36"	38"	44"	12"	12"	15"	15"	18"
T	12"	14"	16"	18"	20"	22"	24"	28"	34"	18"	18"	24"	24"	30"
W	6"	8"	12"	16"	18"	20"	22"	26"	32"	12"	14"	16"	18"	20"

NOTE: SEE PLAN SHEETS FOR SIZE AND LOCATION OF PIPE

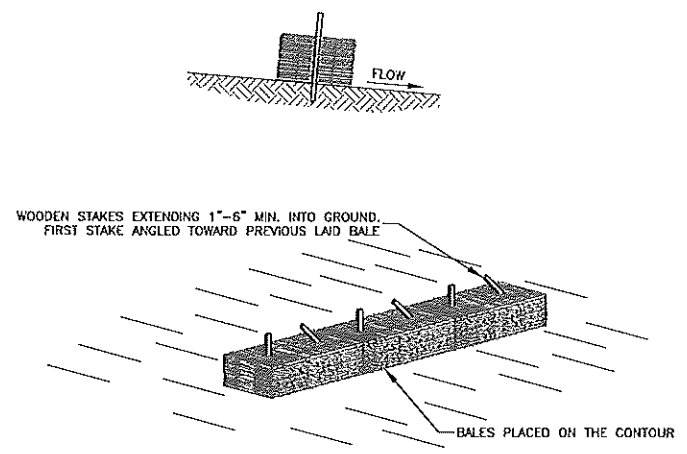


STATE OF KENTUCKY
PAUL D. HESBETT
9382
LICENSED PROFESSIONAL ENGINEER

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KY 30 EAST & WOLF CREEK WATERLINE EXTENSION
BREATHTH COUNTY WATER DISTRICT
1137 Main Street
Jackson, KY 41339
938-48
NOT TO SCALE
6/1/2022

STANDARD DETAILS 1

D-2

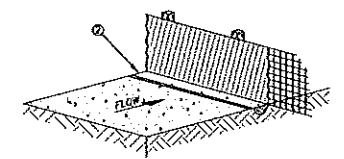


WOODEN STAKES EXTENDING 1"-6" MIN. INTO GROUND.
FIRST STAKE ANGLED TOWARD PREVIOUS LAID BALE

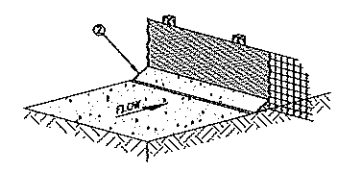
BALES PLACED ON THE CONTOUR

NOTE:
TEMPORARY BALE SILT CHECKS SHALL BE PLACED
WHERE NEEDED TO PROVIDE PROPER EROSION
CONTROL UNTIL REVEGETATION IS COMPLETED.

**STRAW BALE SILT CHECK
SEDIMENTATION CONTROL**
NOT TO SCALE



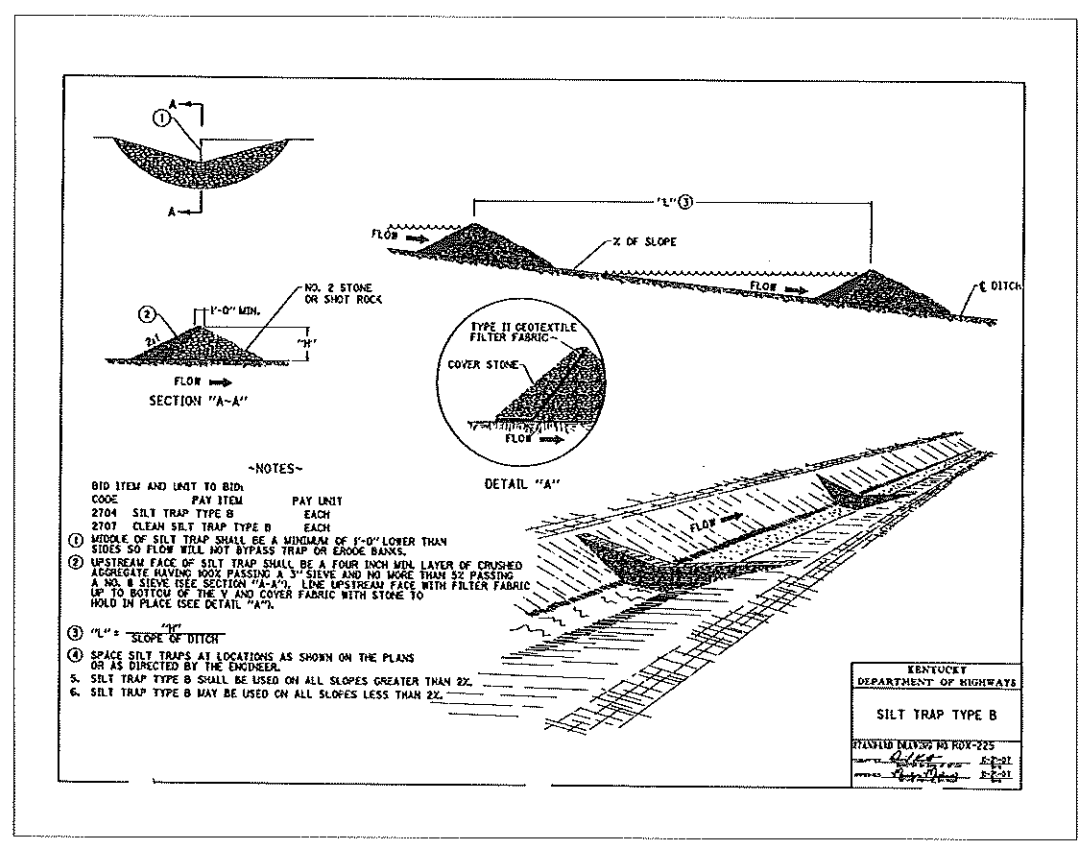
ALTERNATE 1



ALTERNATE 2

NOTES
1. MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH
THE STANDARD SPECIFICATIONS.
2. THE BOTTOM 12 INCHES OF FABRIC SHALL BE BURIED IN A 6
INCH TRENCH CUT INTO THE GROUND OR COVERED BY 6 INCHES
OF FILL MATERIAL, TO PREVENT SEDIMENT ESCAPING UNDER FENCE.
ALL EARTHWORK SHALL BE ON THE UPSTREAM SIDE OF FENCE.

**SILT CHECK FENCE
SEDIMENTATION CONTROL**
NOT TO SCALE



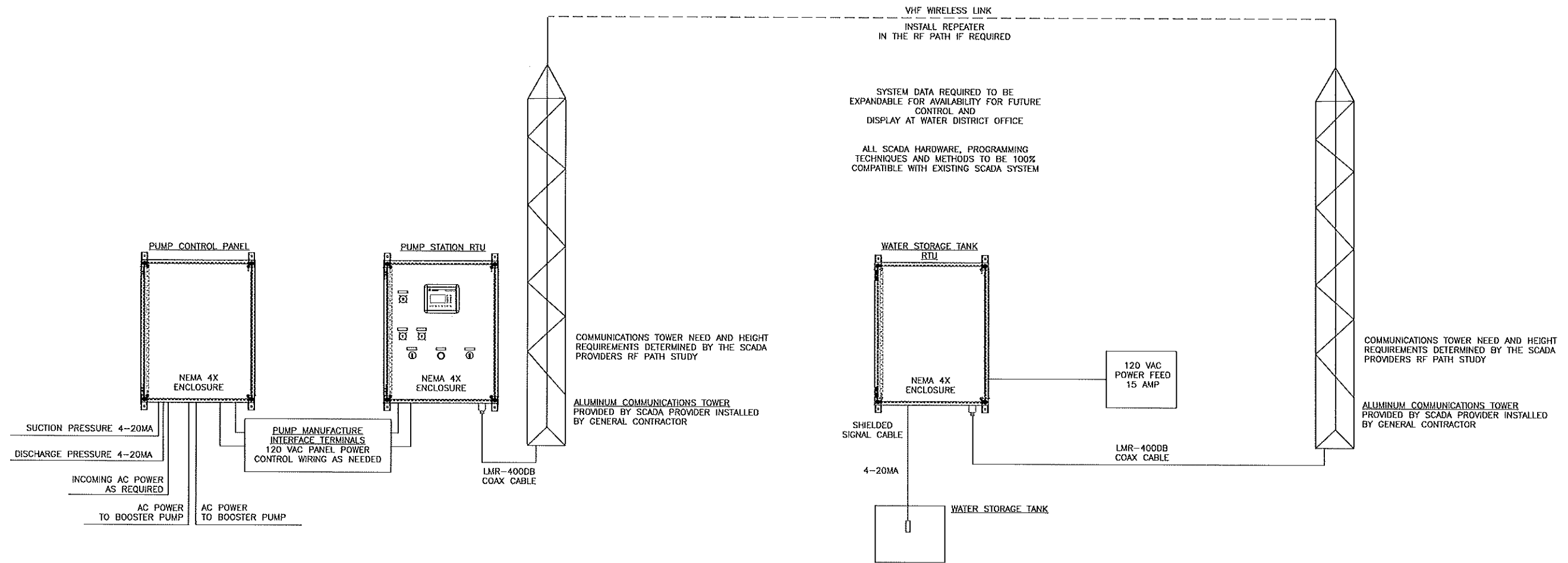
-NOTES-

- BID ITEM AND UNIT TO BID: PAY ITEM PAY UNIT
- 2704 SILT TRAP TYPE B EACH
- 2707 CLEAN SILT TRAP TYPE B EACH
- 1 MIDDLE OF SILT TRAP SHALL BE A MINIMUM OF 1'-0" LOWER THAN SIDES SO FLOW WILL NOT BYPASS TRAP OR ERODE BANKS.
- 2 UPSTREAM FACE OF SILT TRAP SHALL BE A FOUR INCH MIN. LAYER OF CRUSHED AGGREGATE HAVING 100% PASSING A 3" SIEVE AND NO MORE THAN 5% PASSING A NO. 8 SIEVE (SEE SECTION "A-A"). LINE UPSTREAM FACE WITH FILTER FABRIC UP TO BOTTOM OF THE V AND COVER FABRIC WITH STONE TO HOLD IN PLACE (SEE DETAIL "A-A").
- 3 "L" = $\frac{1}{2}$ SLOPE OF DITCH
- 4 SPACE SILT TRAPS AT LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- 5 SILT TRAP TYPE B SHALL BE USED ON ALL SLOPES GREATER THAN 2X.
- 6 SILT TRAP TYPE B MAY BE USED ON ALL SLOPES LESS THAN 2X.

KENTUCKY DEPARTMENT OF HIGHWAYS	
SILT TRAP TYPE B	
PLANNED BY	DATE
DESIGNED BY	DATE
CHECKED BY	DATE

LAST PLOTTED: LAST SAVED:	
KY 30 EAST & WOLF CREEK WATERLINE EXTENSION BREATHITT COUNTY WATER DISTRICT 1137 Main Street JACKSON, KY 41339	
EROSION CONTROL & MISC. DETAILS	
nesbitt engineering, inc. <small>incorporated in Kentucky since 1972</small> KY 30 EAST & WOLF CREEK WATERLINE EXTENSION BREATHITT COUNTY WATER DISTRICT	
DRAWN BY	DATE
PNT/BS	6/1/2022
SCALE	NOT TO SCALE
D-3	

LWT PLotted ON: 4/11/2023 DT: 2:28 PM
 Drawing Title: LOCATION: PUMP STATION WATERLINE EXTENSION
 Drawing No.: 995-48



KY 30 EAST & WOLF CREEK WATERLINE EXTENSION
 CONTRACT 1 - WATERLINE
 BREATHTH COUNTY WATER DISTRICT
 BREATHTH COUNTY, KENTUCKY

SCADA DIAGRAM

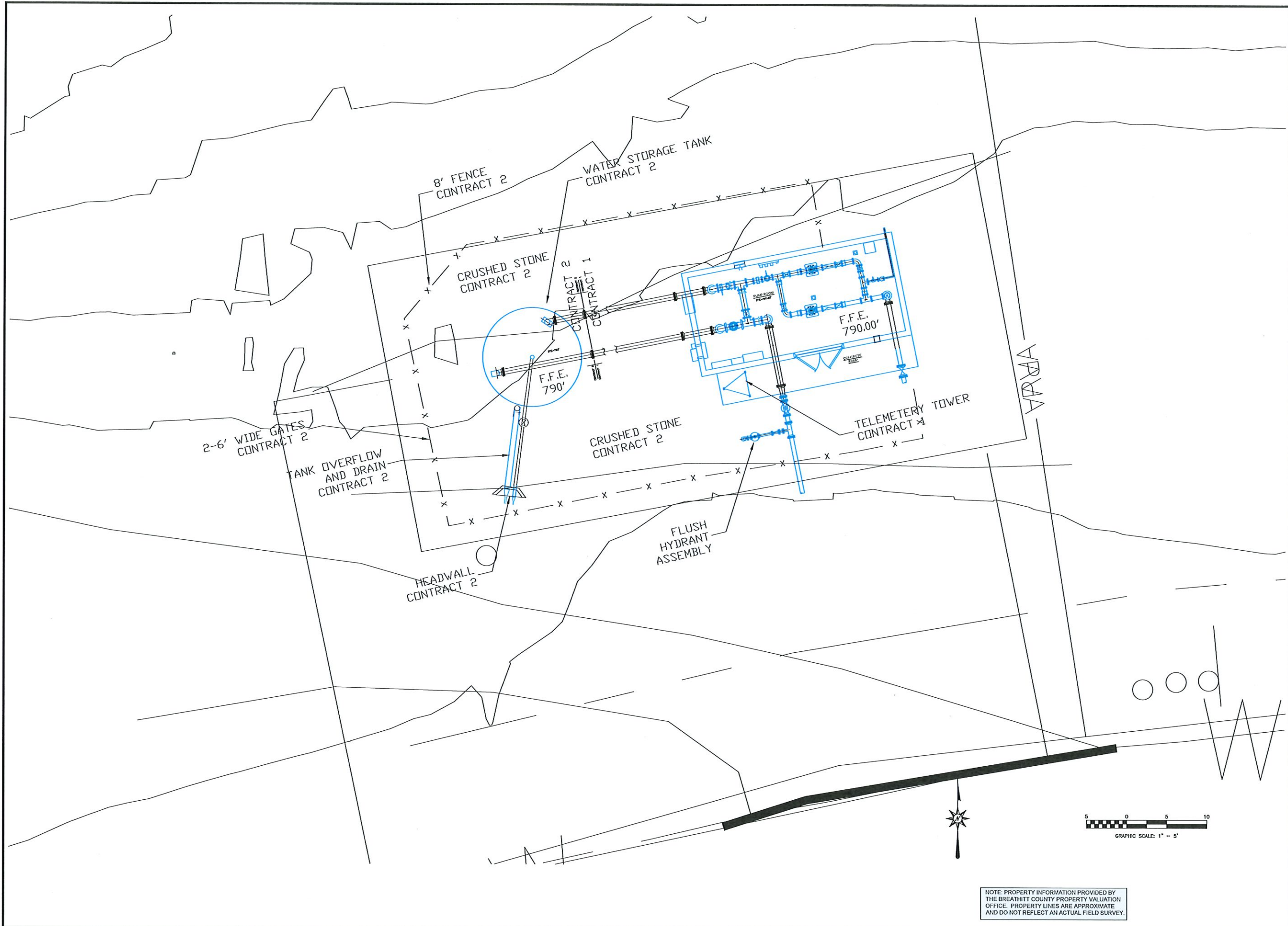


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KY 30 EAST & WOLF CREEK WATERLINE EXTENSION
 BREATHTH COUNTY WATER DISTRICT

Date: 2/1/2023
 Scale: NOT TO SCALE





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KY 30 EAST & WOLF CREEK WATERLINE EXTENSION
 CONTRACT 1 WATERLINES
 BREATHTH COUNTY WATER DISTRICT
 BREATHTH COUNTY, KY

PUMP STATION SITE



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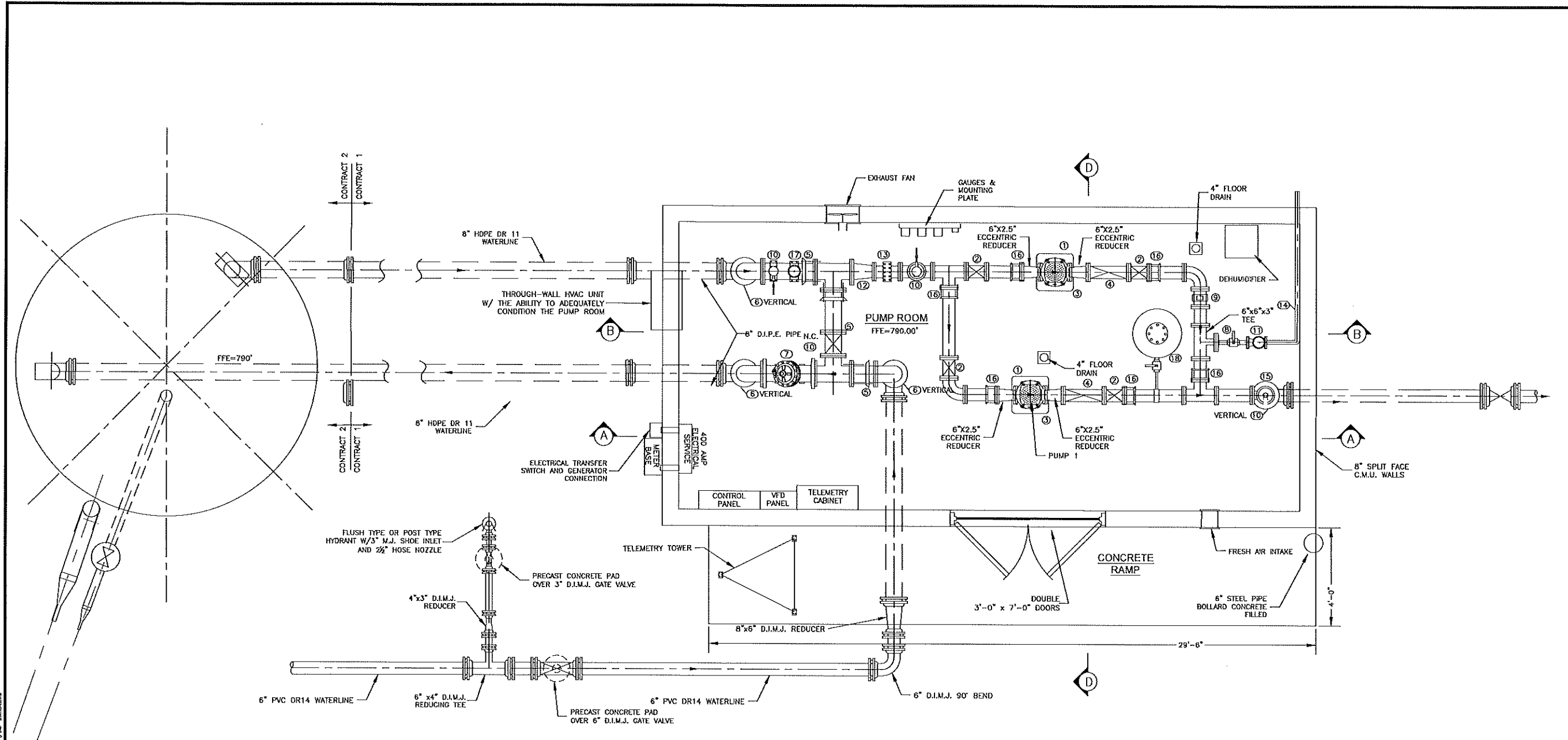
KY 30 EAST & WOLF CREEK WATERLINE EXTENSION
 BREATHTH COUNTY WATER DISTRICT

sheet no. 938-48 NTS

drawn by MNS
 date NOVEMBER 17, 2022



D-5



- ① PUMPS 1 & 2 ARE GRUNDFOS, MODEL CR 15-10, MULTI-STAGE CENTRIFUGAL PUMPS. EACH PUMP IS DRIVEN BY 15 HP, 3500 RPM, TEFC, 3 PHASE, 230 VOLT, HIGH EFFICIENCY MOTOR. PUMP FLANGES ARE 2" ANSI 300LB R.F. AIR RELEASE VALVES ON THE SUCTION AND DISCHARGE HEADER ARE TO BE RATED FOR 300LB. PUMP DUTY POINT IS 110 GPM @ 440 FT. PUMPS ARE TO BE THE SAME AS SUPPLIED BY STRAEFFER PUMP & SUPPLY, INC. OR APPROVED EQUAL.
- ② 6" D.I. FLG. GATE VALVE
- ③ CONCRETE PUMP PAD
- ④ 6" D.I. FLG. SINGER MODEL 106-HC, HYDRAULIC CHECK VALVE WITH OPEN/CLOSE SPEED CONTROL AND STEM POSITION INDICATOR OR APPROVED EQUAL
- ⑤ 8" D.I. FLG. DISMANTLING JOINT (ROMAC STYLE DJ400 OR DJ405 OR APPROVED EQUAL)
- ⑥ 8" D.I. FLG. GATE VALVE W/HANDWHEEL OPERATOR
- ⑦ 8" FLG'D SINGER MODEL 106-A-TYPE 4-SC ELECTRONIC OPEN/CLOSE CONTROL VALVE WITH BACK UP ALTITUDE PILOT AND STEM POSITION INDICATOR OR APPROVED EQUAL
- ⑧ 2" FLG. SINGER MODEL 106-RPS-L&H-X107 SURGE RELIEF VALVE WITH POSITION INDICATOR, 2" FLG. & THREADED ADAPTER (BOTH ENDS OF CONTROL VALVE)
- ⑨ DISCHARGE PRESSURE GAUGE
- ⑩ AIR RELEASE VALVE
- ⑪ 2" BRASS THREADED BALL VALVE
- ⑫ 8"x6" D.I. FLG. REDUCER
- ⑬ 6" D.I. FLG. SINGER MODEL ZS STRAINER OR APPROVED EQUAL
- ⑭ 2" BRASS THREADED PIPE
- ⑮ TELEMETRY TRANSMITTER
- ⑯ 6" D.I. FLG. DISMANTLING JOINT (ROMAC STYLE DJ400 OR DJ405 OR APPROVED EQUAL)
- ⑰ GF SIGNET 2551 MAGMETER WITH DISPLAY, 1 OPEN COLLECTOR, OUTPUT 4-20 MA OUTPUT
- ⑱ BLADDER TANK - 79 GALLONS, 250 PSI RATED
- A.A. NORMALLY CLOSED

PUMP STATION LAYOUT

SCALE: 1/2" = 1'-0"

ALL VALVES SHALL BE CONSTRUCTED USING
 1. STAINLESS STEEL PILOT VALVE TUBING.
 2. STAINLESS STEEL SEAT AND BOLTS.
 3. VALVE STEM INDICATOR.
 4. LOCATING PINS FOR COVER ASSEMBLY.

- NOTE:
1. INSTALLATION OF ELECTRICAL EQUIPMENT SHALL CONFORM WITH ALL APPLICABLE STATE & LOCAL ELECTRICAL CODES AND THE NATIONAL ELECTRICAL CODE.
 2. 3 PHASE POWER IS AVAILABLE TO THE SITE.
 3. THE 400 AMP PANELBOARD SHALL HOUSE ALL AUXILIARY BREAKERS FOR THE BUILDING INCLUDING BUT NOT LIMITED TO: LIGHTS, HEATER, HVAC, DEHUMIDIFIER, CONVENIENCE OUTLETS, ETC.
 4. LIGHT FIXTURES SHALL BE LED.
 5. ELECTRICAL SERVICE SHALL BE EQUIPT WITH TRANSFER SWITCH GEAR FOR THE GENERATOR CONNECTION
 6. PUMPS SHALL RUN IN HAND IF THE LOW SUCTION CUT OFF IS ACTIVATED.
 7. A DISCHARGE TRANSDUCER SHALL BE USED TO CONTROL THE VFD'S. THIS TRANSDUCER SHALL BE SUPPLIED AS PART OF THE SCADA PACKAGE.
 8. GALVANIZED PIPING AND FITTING SHALL NOT BE USED.

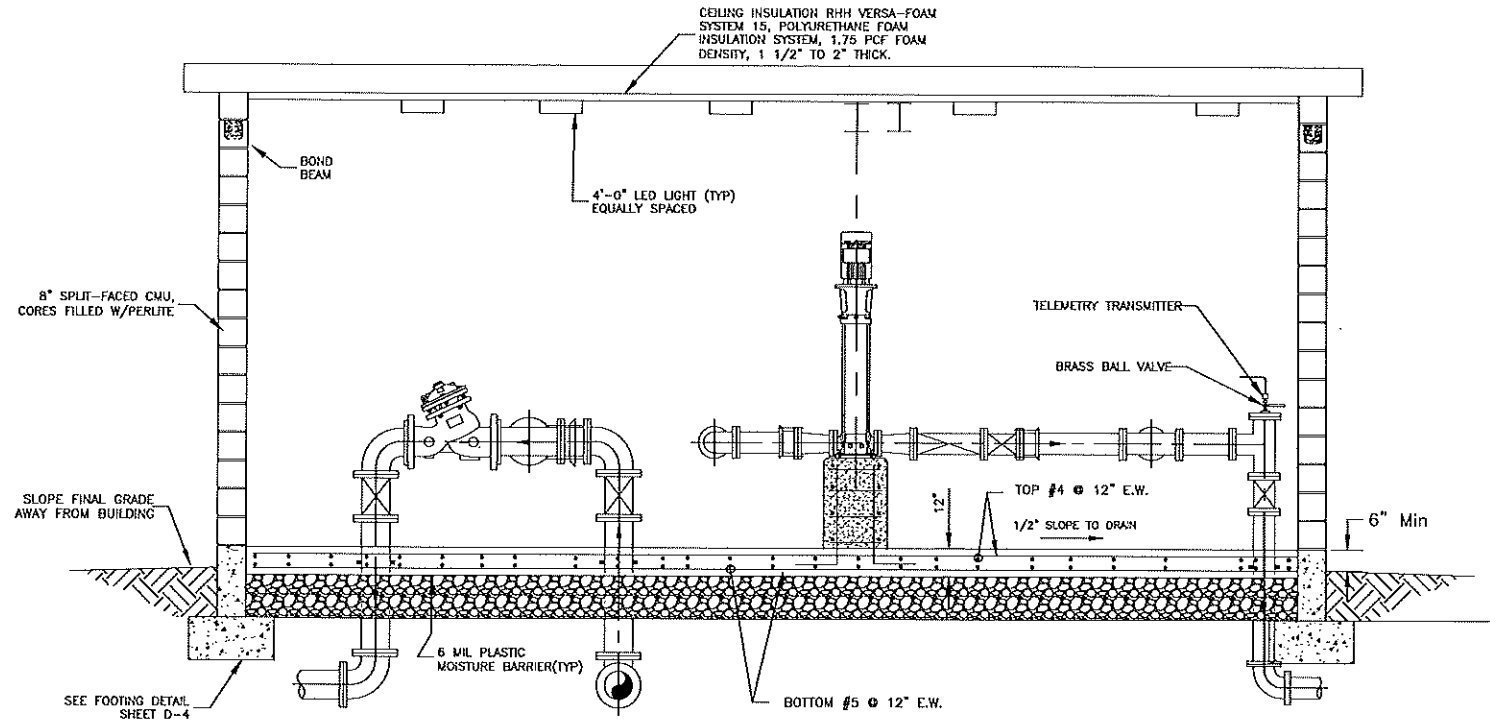
KY 30 EAST & WOLF CREEK WATERLINE EXTENSION
 CONTRACT 1 - WATERLINE
 BREATHTH COUNTY WATER DISTRICT
 BREATHTH COUNTY, KENTUCKY
 PUMP STATION PLAN VIEW



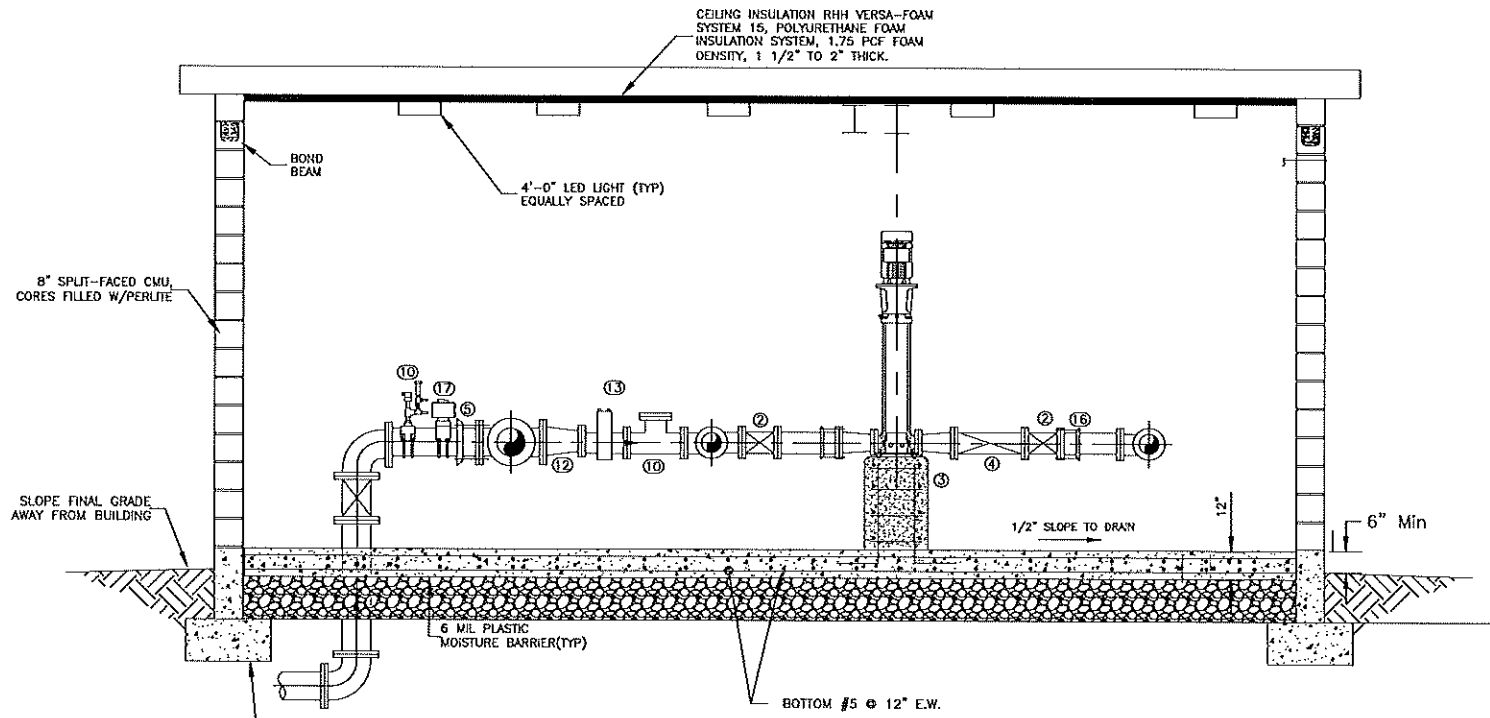
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 PROVIDING PROFESSIONAL ENGINEERING SINCE 1977

KY 30 EAST & WOLF CREEK WATERLINE EXTENSION
 BREATHTH COUNTY WATER DISTRICT
 PROJECT NO. 998.48
 SHEET NO. AS-SHOWN
 DATE 2/1/2023

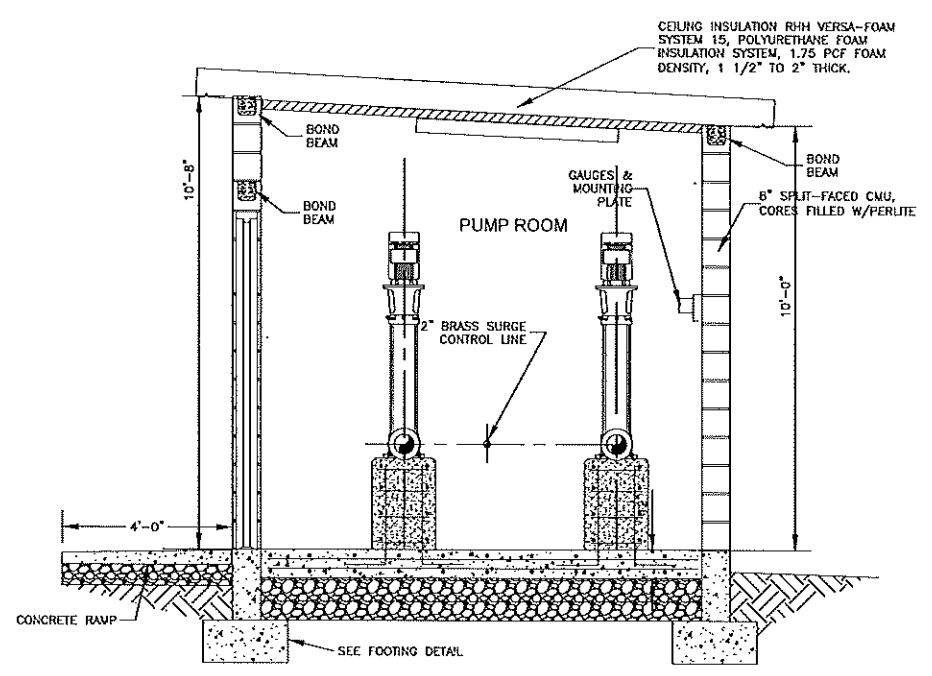




SECTION A-A
SCALE: 1/2" = 1'-0"



SECTION B-B
SCALE: 1/2" = 1'-0"



SECTION D-D
SCALE: 1/2" = 1'-0"

ALL VALVES SHALL BE CONSTRUCTED USING
 1. STAINLESS STEEL PILOT VALVE TUBING.
 2. STAINLESS STEEL SEAT AND BOLTS.
 3. VALVE STEM INDICATOR.
 4. LOCATING PINS FOR COVER ASSEMBLY.

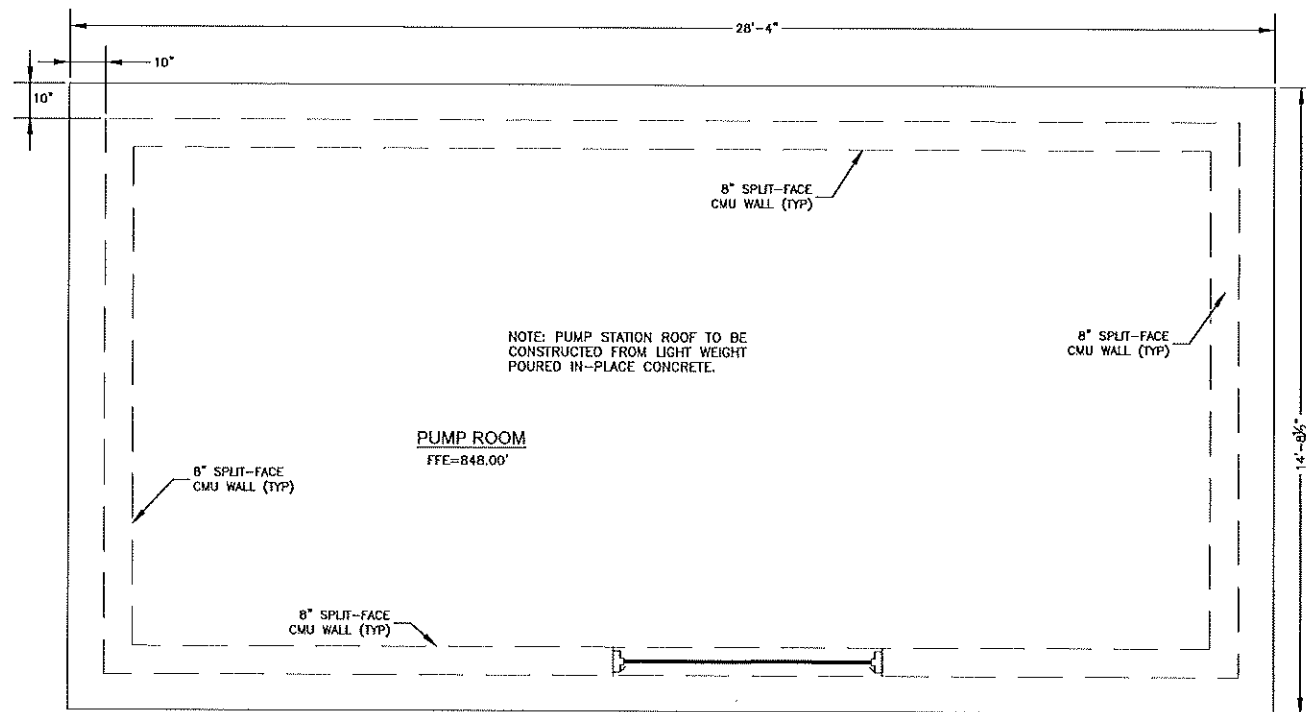
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KY 30 EAST & WOLF CREEK WATERLINE EXTENSION
 CONTRACT 1 - WATERLINE
 BREATHT COUNTY WATER DISTRICT
 BREATHT COUNTY, KENTUCKY

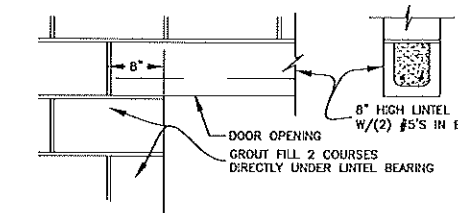


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 KY 30 EAST & WOLF CREEK WATERLINE EXTENSION
 BREATHT COUNTY WATER DISTRICT
 PROJECT NO. 23-00003
 DRAWING NO. 998.48
 SCALE AS-SHOWN
 DATE 3/30/2023

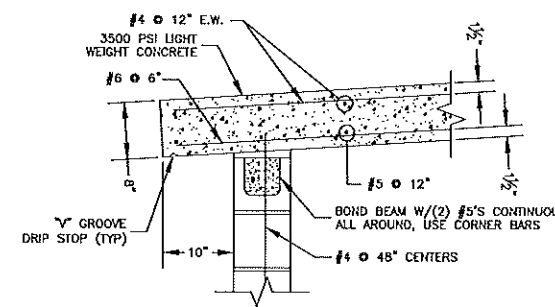




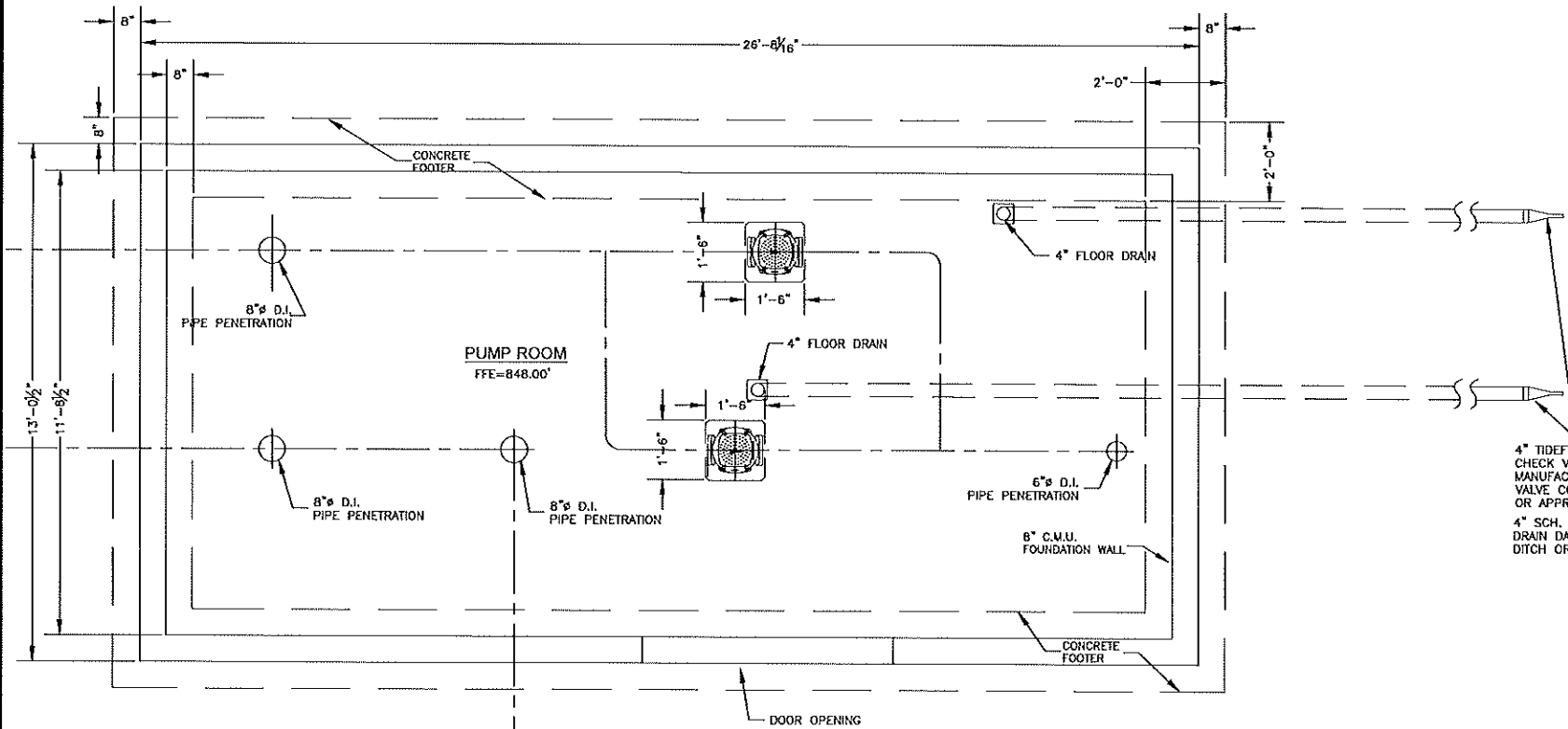
ROOF PLAN
SCALE: 1/2" = 1'-0"



LINTEL DETAIL
SCALE: 1" = 1'-0"

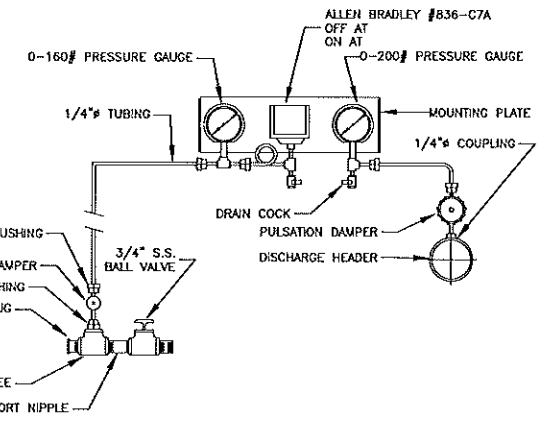


ROOF DETAIL
SCALE: 1" = 1'-0"

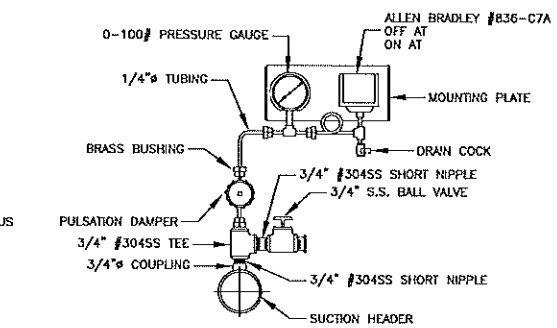


FOUNDATION PLAN
SCALE: 1/2" = 1'-0"

- NOTES:
1. ALL CONCRETE 4000 PSI, EXCEPT AS NOTED
 2. FOOTING, 60KSI REINFORCING
 3. ALL INTERIOR CMU TO BE 2-CELL, LIGHT WEIGHT, ASTM C-129
 4. ALL EXTERIOR CMU TO BE SPLITFACE FULL HEIGHT, ASTM C-90
 5. USE TYPE S MORTAR
 6. USE PAINT TYPE COMPATIBLE WITH MATERIALS PAINTED, COLOR BY OWNER
 7. EXTERIOR ROOF & WALLS TO BE SEALED WITH 2 COATS CLEAR THOMPSON WATER SEAL OR EQUAL.

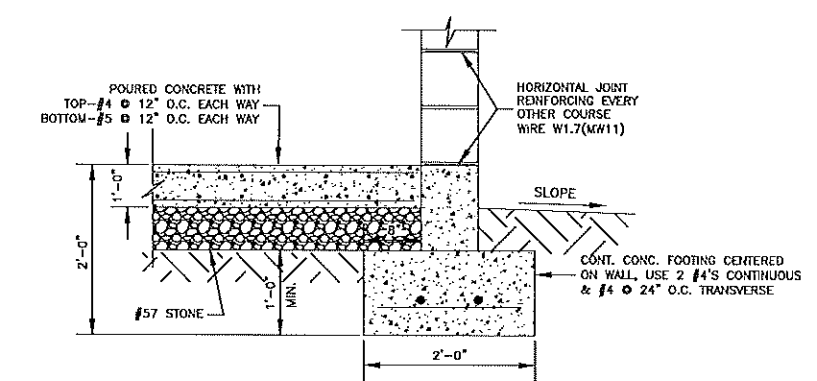


DISCHARGE GAUGE/SWITCH PANEL DETAIL
NOT TO SCALE



SUCTION GAUGE/SWITCH PANEL DETAIL
NOT TO SCALE

- NOTES:
1. PIPING TO BE SCH.40 BLACK STEEL CONFORMING TO AWWA C-200
 2. ALL VALVE HANDLES TO BE ROTATED AS REQUIRED FOR BEST ACCESS

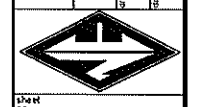


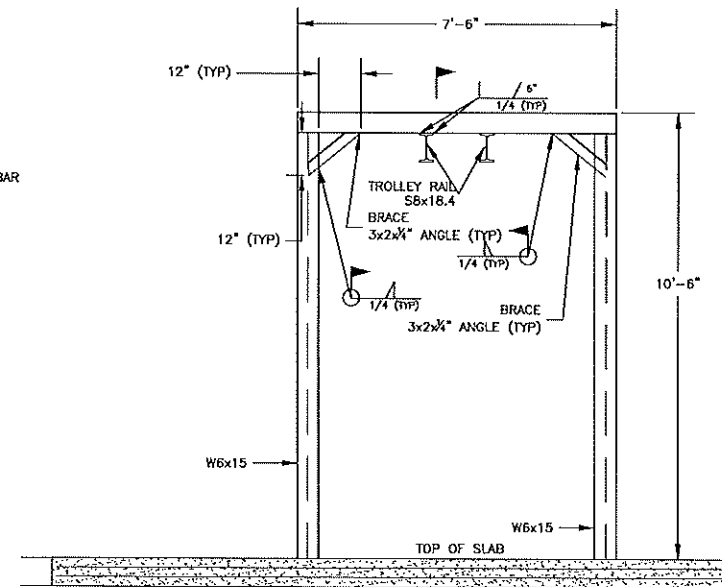
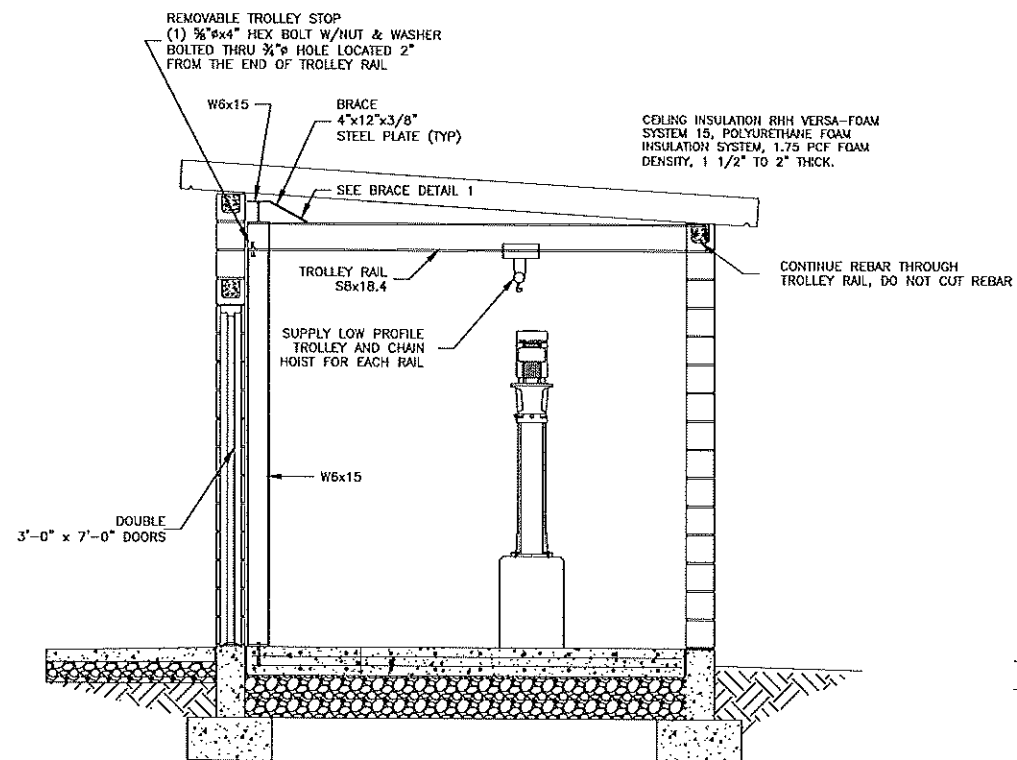
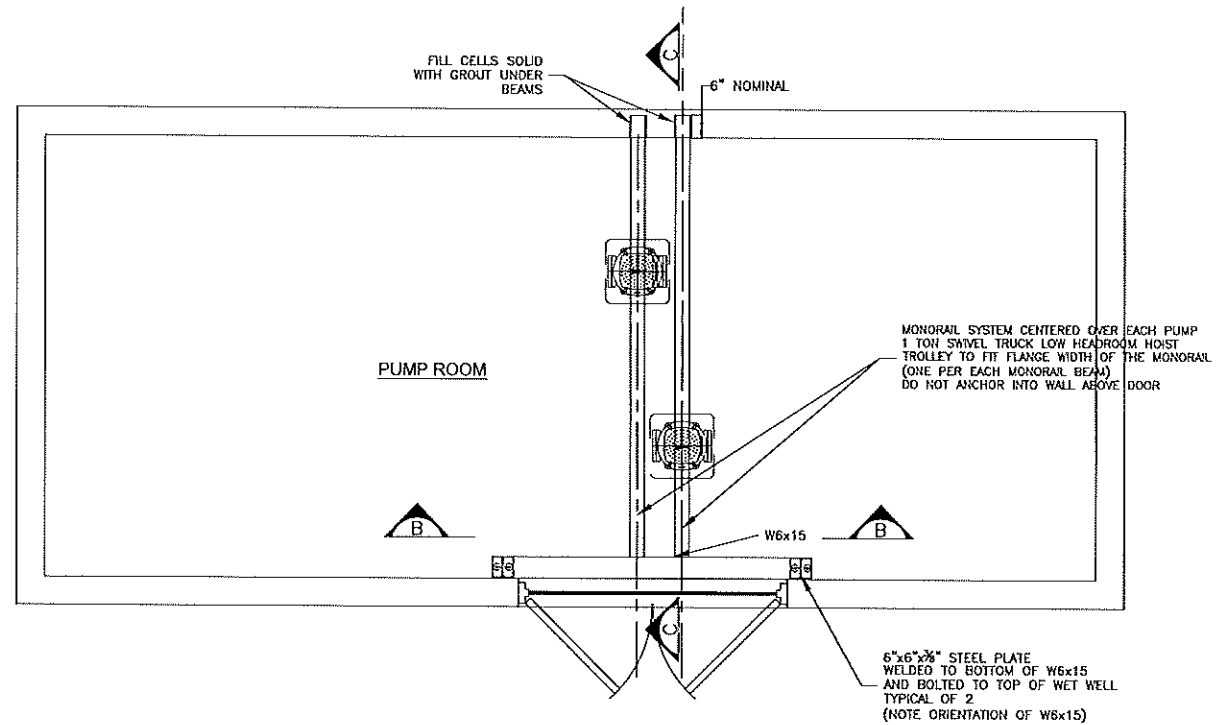
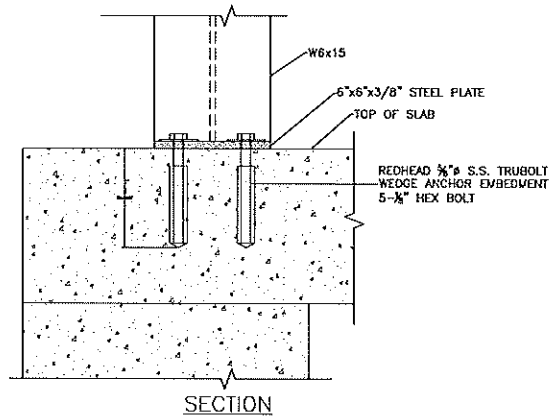
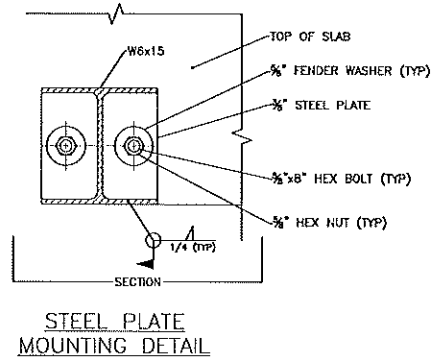
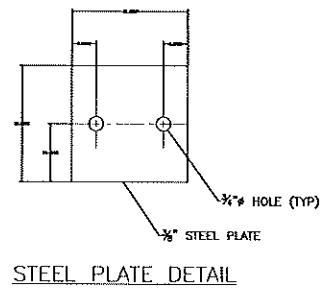
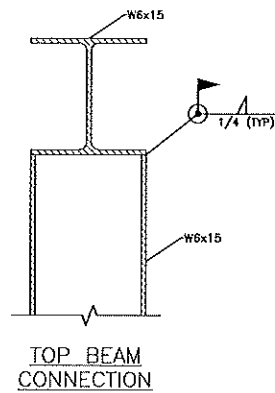
FOOTING DETAIL
SCALE: 1" = 1'-0"

KY 30 EAST & WOLF CREEK WATERLINE EXTENSION
CONTRACT 1 - WATERLINE
BREATHITT COUNTY WATER DISTRICT
BREATHITT COUNTY, KENTUCKY



nesbitt engineering, inc.
KY 30 EAST & WOLF CREEK WATERLINE EXTENSION
BREATHITT COUNTY WATER DISTRICT
AS-SHOWN
998-48
3/30/2023





KY 30 EAST & WOLF CREEK WATERLINE EXTENSION
 CONTRACT 1 - WATERLINE
 BREATHTH COUNTY WATER DISTRICT
 BREATHTH COUNTY, KENTUCKY

PUMP STATION - HOIST SYSTEM



nesbitt engineering, inc.

KY 30 EAST & WOLF CREEK WATERLINE EXTENSION
 BREATHTH COUNTY WATER DISTRICT

DATE: 3/30/2023

AS-SHOWN

