

nesbitt engineering, inc.

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

HYDEN-LESLIE COUNTY WATER DISTRICT

LESLIE COUNTY, KENTUCKY

CUTSHIN WATER LINE REPLACEMENT PHASE 1

AUGUST, 2025

MANAGER

L.J. TURNER

BOARD OF DIRECTORS

KEVIN COOK

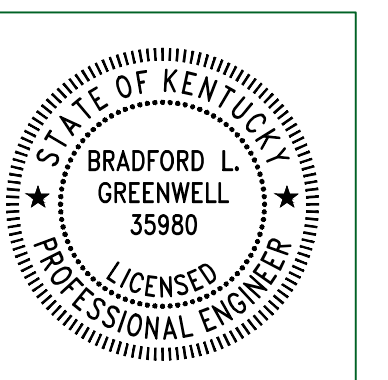
TODD HORTON

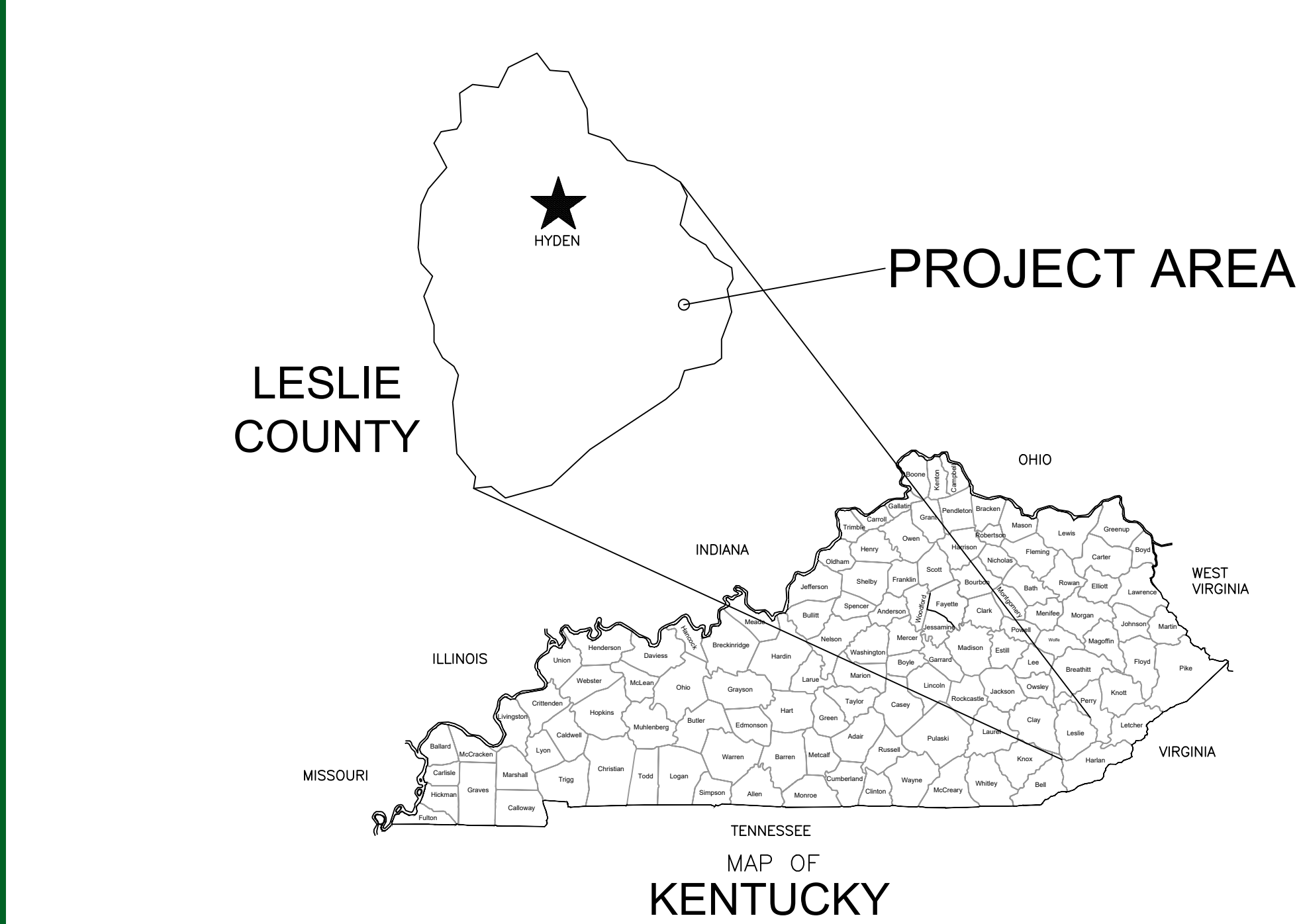
DWIGHT LEWIS

RONNIE GAY

TEDDY COUCH

RELEASED FOR:
BID





PROTECTION OF EXISTING UTILITIES

THE EXISTING UTILITIES SHOWN ON THE PLANS ARE SHOWN AS BEST KNOWN AT THE TIME THE PLANS WERE DEVELOPED AND ARE TO BE USED AS ONLY A GUIDE BY THE CONTRACTOR. THE CONTRACTOR SHALL USE ALL MEANS AT THEIR DISPOSAL TO ACCURATELY LOCATE ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO EXCAVATION. THE CONTRACTOR SHALL PROTECT THESE UTILITIES DURING CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES DURING CONSTRUCTION THAT ARE SHOWN OR NOT SHOWN ON THE PLANS SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.

UTILITY SHUTDOWNS

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. THE OPENING AND CLOSING OF VALVES AND OPERATING OF OTHER ACTIVE UTILITY FACILITIES FOR MAIN, UTILITY LINE, OR UTILITY SERVICE SHUT DOWNS ARE TO BE PERFORMED BY THE UTILITY OWNER UNLESS SPECIFIC PERMISSION IS GIVEN TO THE CONTRACTOR BY THE OWNER TO MAKE SHUTDOWNS. IF AND WHEN THE UTILITY OWNER GIVES THE CONTRACTOR PERMISSION TO SHUTDOWN MAINS, UTILITY LINES, OR UTILITY SERVICES, THE CONTRACTOR SHALL DO SO FOLLOWING THE RULES, PROCEDURES, AND REGULATIONS OF THE UTILITY OWNER. ANY PERMISSION GIVEN BY THE UTILITY OWNER TO THE CONTRACTOR TO SHUTDOWN ACTIVE AND IN-SERVICE MAINS, UTILITY LINES, OR SERVICES SHALL BE COMMUNICATED TO NESBITT ENGINEERING, INC. BY THE UTILITY OWNER THAT SUCH PERMISSION HAS BEEN GIVEN. ANY PROCEDURE THE UTILITY OWNER MAY REQUIRE THE CONTRACTOR TO PERFORM AND ANY EXPENSE THE CONTRACTOR MAY INCUR TO COMPLY WITH THE UTILITY OWNER'S SHUT DOWN PROCEDURE WILL BE CONSIDERED AN INCIDENTAL EXPENSE TO THE PROJECT WORK.

THE CONTRACTOR SHALL GIVE AS MUCH ADVANCE NOTICE AS POSSIBLE TO RESIDENTS WHEN A UTILITY SERVICE IS TO BE INTERRUPTED TO A RESIDENCE. THE CONTRACTOR MAY USE WHATEVER MEANS OF COMMUNICATION SPECIFIED BY THE UTILITY OWNER. THE MEANS OF COMMUNICATION TO THE RESIDENT MAY BE: BUT IS NOT LIMITED TO, A DOOR HANGER, NOTICE BY NEWSPAPER AD, TELEPHONE CONTACT, OR ANY COMBINATION OF COMMUNICATION METHODS DEEMED NECESSARY, CUSTOMARY, AND APPROPRIATE BY THE UTILITY OWNER.

STATIONS AND DISTANCES

ALL STATIONS AND DISTANCES, WHEN INDICATED FOR UTILITY PLACEMENT IN UTILITY RELOCATION PLANS OR SPECIFICATIONS, ARE APPROXIMATE; THEREFORE, SOME MINOR ADJUSTMENT MAY HAVE TO BE MADE DURING CONSTRUCTION TO FIT ACTUAL FIELD CONDITIONS. CHANGES IN LOCATION WITHOUT PRIOR APPROVAL SHALL BE REMEDIED BY THE CONTRACTOR AT THEIR OWN EXPENSE IF THE UNAUTHORIZED CHANGE CREATES AN UNACCEPTABLE CONFLICT OR CONDITION.

GENERAL NOTES:

- DIMENSIONS OF EXISTING STRUCTURES, EQUIPMENT, ETC. SHALL BE FIELD CONFIRMED BY THE CONTRACTOR. WHERE CRITICAL DIMENSIONS FOR INSTALLATION OF PROPOSED IMPROVEMENTS ARE INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL CONFIRM THESE DIMENSIONS FOR ACTUAL MATERIALS FURNISHED. ALL KNOWN DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER.
- 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 PERFORMED OUTSIDE OF LEGAL EASEMENTS, CONSTRUCTION LIMITS, OR RIGHT OF WAY.
- THE CONTRACTOR MUST CONTACT ALL UTILITY OWNERS AND HAVE THEM FIELD LOCATE THEIR EXISTING LINES PRIOR TO ANY CONSTRUCTION ACTIVITY. MANY UTILITIES MAY BE LOCATED THROUGH KENTUCKY 811.
- EFFORTS HAVE BEEN MADE TO INDICATE ACCURATE LOCATIONS OF SOME EXISTING STRUCTURES, PIPING AND UTILITIES. HOWEVER, THE CONTRACTOR SHALL FAMILIARIZE THEIR SELF 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 THEIR 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 THEIR 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. KNOWN CRITICAL POINTS SHOULD BE EXPOSED AND RELOCATED WHERE NEEDED.
- 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.
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THE CONTRACTOR SHALL PERFORM ALL CONSTRUCTION IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND ALL RULES AND REGULATIONS THERETO APPURTENANT.
- WHERE CONTRACT DOCUMENTS DO NOT ADDRESS SPECIFIC ITEMS OF CONSTRUCTION, THE CURRENT EDITION OF THE DEPARTMENT OF HIGHWAYS'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SHALL APPLY. THE INTENT OF THE CONTRACT IS TO PROVIDE FOR CONSTRUCTION AND COMPLETION OF EVERY DETAIL OF WORK DESCRIBED.
- TEMPORARY AND PERMANENT RESTORATION OF PAVED OR STONED AREAS DUE TO UTILITY CONSTRUCTION SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT WORK. NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK. PERMANENT RESTORATION SHALL BE "IN-KIND" AS EXISTING. CARE SHALL BE TAKEN BY THE CONTRACTOR TO AVOID CRACKING OR BREAKING THE BITUMINOUS PAVING. 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. ALL DAMAGE TO THE EXISTING PAVING CAUSED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER. RESTORATION OF SEED AND SOD AREAS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT WORK. NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK.
- THE CONTRACTOR SHALL NOTIFY THE PROPERTY OWNERS AT LEAST 48 HOURS PRIOR TO WATER LINE CONNECTION OR ANY OTHER CONSTRUCTION ACTIVITIES THAT WILL ENCROACH UPON PRIVATE PROPERTY.

SHEET INDEX

- O-1 OVERALL MAP - KY-699
- O-2 OVERALL MAP - YEADDISS RD

- C-1 STA. 0+00 TO 26+00
- C-2 STA. 26+00 TO 54+00
- C-3 STA. 54+00 TO 85+00
- C-4 STA. 85+00 TO 114+00
- C-5 STA. 114+00 TO 135+00
- C-6 STA. 135+00 TO 144+74
- C-7 STA. 144+74 TO 171+00
- C-8 STA. 171+00 TO 197+00
- C-9 STA. 197+00 TO 219+47
- C-10 STA. 219+47 TO 246+20
- C-11 PROPOSED CREEK CROSSING PROFILES - KY-699
- C-12 PROPOSED CREEK CROSSING PROFILES - YEADDISS RD
- C-13 PROPOSED CREEK CROSSING PROFILES - PIGEONROOST

- D-1 STANDARD DETAILS
- D-2 STANDARD DETAILS 2
- D-3 CREEK CROSSING DETAILS
- D-4 MASTER METER/PRV VAULT DETAILS
- D-5 PRV VAULT DETAILS

GENERAL NOTES CONTINUED:

- CONTRACTOR IS RESPONSIBLE FOR ENSURING CONTINUOUS WATER AND SEWER SERVICES ARE PROVIDED TO ALL EXISTING CUSTOMERS DURING CONSTRUCTION.
- UNLESS OTHERWISE NOTED, WATER LINES SHALL HAVE A MINIMUM OF 30" COVER FROM FINAL GRADE TO TOP OF PIPE AND A MINIMUM OF 42" COVER IN AREAS LOCATED UNDERNEATH DITCHES AND ROAD CROSSINGS. THERE 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.
- PURSUANT TO KENTUCKY TRANSPORTATION CABINET (KTC) ENCROACHMENT PERMIT, PERMANENT SURFACE APPURTENANCES (GATE VALVES, HYDRANTS, ETC.) SHALL NOT BE LOCATED IN THE DITCH LINES. PERMANENT SURFACE APPURTENANCES SHALL BE LOCATED AT A MINIMUM OF BACK OF DITCH OR TOE OF SLOPE (TYP.). WATER LINE SHALL BE A MINIMUM OF 5 FEET OFF OF EDGE OF PAVEMENT (TYP.)
- WATER LINES SHOULD BE INSTALLED BEHIND ALL CULVERTS, HEADWALLS, OR ANY DRAINAGE STRUCTURE (TYP.). IF THE CONTRACTOR DESIRES TO INSTALL WATER LINE ABOVE DRAINAGE STRUCTURE(S), CONTRACTOR SHALL REQUEST A WAIVER FROM KTC PERSONNEL.
- ROCK BLASTING: THERE SHALL BE NO BLASTING WITHIN STATE RIGHT-OF-WAY WITHOUT WRITTEN CONSENT FROM THE KENTUCKY TRANSPORTATION CABINET.
- 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.
- THE CONTRACTOR SHALL PERFORM THEIR WORK ACTIVITIES TO MAINTAIN INGRESS AND EGRESS TO RESIDENCES AND BUSINESS ESTABLISHMENTS AT ALL TIMES. DENSE GRADED AGGREGATE (DGA) SHALL BE USED AS DIRECTED BY THE ENGINEER TO MAINTAIN INGRESS AND EGRESS AND SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT WORK. ALL ROADWAYS AND DRIVEWAYS WITHIN LEGAL EASEMENTS, CONSTRUCTION LIMITS, AND RIGHT-OF-WAY 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 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.
- ALL CHANGES IN EITHER VERTICAL OR HORIZONTAL DIRECTION, NEW VALVES, FITTINGS, HYDRANTS, ETC. ARE TO HAVE MECHANICAL RESTRAINED JOINTS.
- DIRECTIONAL DRILL SITES ARE LISTED AS LUMP SUM WITH AN APPROXIMATE LENGTH SHOWN IN HORIZONTAL FEET, CONTRACTOR SHALL INSPECT EACH SITE FOR SLOPE DIFFERENCES TO DETERMINE ACTUAL PIPE LENGTHS REQUIRED.
- ALL SERVICE LINE SHALL BE HDPE CLASS 250.
- WATER LINE MARKERS ARE NOT SHOWN ON THE PLAN SHEETS AND WILL BE LOCATED IN THE FIELD FOR BEST VISIBILITY. THEY ARE TO BE SPACED NO MORE THAN EVERY 2,000 FEET ALONG THE PERMANENT WATER LINE ROUTE AND AT EACH OF THE MAIN WATER LINE ROAD CROSSINGS.

C: CIVIL SHEETS
D: DETAIL SHEETS



THE CONTRACTOR IS INSTRUCTED TO CALL 1-800-752-6007 TO REACH KY 811, THE ONE-CALL SYSTEM FOR INFORMATION ON THE LOCATION OF EXISTING UNDERGROUND UTILITIES, THE CALL IS TO BE PLACED A MINIMUM OF TWO (2) AND NO MORE THAN TEN (10) BUSINESS DAYS PRIOR TO EXCAVATION. THE CONTRACTOR SHOULD BE AWARE THAT OWNERS OF UNDERGROUND FACILITIES ARE NOT REQUIRED TO BE MEMBERS OF THE KY 811 ONE-CALL BEFORE-U-DIG (BUD) SERVICE. THE CONTRACTOR MUST COORDINATE EXCAVATION WITH THE UTILITY OWNERS, INCLUDING THOSE WHOM DO NOT SUBSCRIBE TO KY 811. IT MAY BE NECESSARY FOR THE CONTRACTOR TO CONTACT THE COUNTY COURT CLERK TO DETERMINE WHAT UTILITY COMPANIES HAVE FACILITIES IN THE AREA.

DISTRICT 11 - PERMITS BRANCH
UTILITY - PRE-CONSTRUCTION NOTES



TRAFFIC CONTROL

- PRIOR TO BEGINNING WORK ON KYTC ROW THE CONTRACTOR SHALL HAVE COMPLETED THE KENTUCKY TRANSPORTATION CABINET MULTI-PART 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 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.
- ALL WORK ON KYTC ROW SHALL BE PERFORMED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) GUIDELINES. PROPER TRAFFIC CONTROL SHALL BE IMPLEMENTED AT ALL TIMES. THIS INCLUDES DELIVERY OF EQUIPMENT, MATERIALS, AND PERFORMING THE WORK.

STORAGE OF MATERIAL AND EQUIPMENT

- IN ORDER TO MAINTAIN A SAFE AREA FOR MOTORISTS AND PEDESTRIANS, ALL CONSTRUCTION MATERIALS SHALL BE STORED OFF KYTC ROW. CONSTRUCTION MATERIALS SHALL NOT BE PLACED INSIDE THE CLEAR ZONED DURING PERIODS OF NON-WORK.
- ALL CONSTRUCTION EQUIPMENT SHALL BE PARKED OFF THE ROW DURING NON-WORKING HOURS. NO EQUIPMENT SHALL BE PARKED INSIDE THE CLEAR ZONE DURING NON-WORKING HOURS. DURING WORKING HOURS THE EQUIPMENT, WHEN NOT IN USE, SHALL BE PARKED AS FAR FROM THE ROADWAY PAVEMENT AS POSSIBLE. IN ORDER TO MINIMIZE OBSTACLES ADJACENT TO THE ROADWAY, ALL EMPLOYEE VEHICLES ARE TO BE PARKED OFF THE ROW.

WORK AREA MAINTENANCE

- DURING CONSTRUCTION OF THE PERMITTED WORK, THE WORK AREA SHALL BE CLEAR OF ANY DEBRIS WHICH WOULD CREATE A HAZARD TO THE PEDESTRIANS AND MOTORISTS USING THE ROADWAY AND ADJACENT APPURTENANCES. THIS INCLUDES MAINTAINING A DEBRIS FREE ROADWAY AND SHOULDER (I.E., TRACKING OF MUD BY TRUCK AND CARS). THERE SHALL BE ON-GOING INSPECTIONS TO ENSURE COMPLIANCE WITH THIS REQUIREMENT. IF THE WORK IS BEING DONE IN AN URBAN AREA AND INVOLVES SIDEWALK REMOVAL, A TEMPORARY WALKWAY SHALL BE PROVIDED THROUGH THE WORK AREA FOR PEDESTRIANS.
- PROPER DRAINAGE SHALL BE MAINTAINED AT ALL TIMES. ALL DRAINAGE STRUCTURES AND DITCHES SHALL BE KEPT CLEAR OF ANY DEBRIS WHICH WOULD IMPEDE PROPER DRAINAGE. PROPER EROSION AND SEDIMENT CONTROL STRUCTURES SHALL BE INSTALLED TO PREVENT SILTATION OF DRAINAGE STRUCTURES AND WATERS OF THE COMMONWEALTH OF KENTUCKY. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED UNTIL VEGETATION IS RE-ESTABLISHED. THERE SHALL BE ON-GOING INSPECTIONS TO ENSURE COMPLIANCE WITH THIS REQUIREMENT.
- NO TRENCHES, HOLES OR PITS SHALL BE LEFT OPEN FOR ANY PERIOD OF NON-WORK (I.E., NO TRENCHES OR PITS LEFT OPEN OVERNIGHT OR OVER THE WEEKEND).

CONSTRUCTION

- BEFORE YOU DIG: THE CONTRACTOR IS INSTRUCTED TO CALL 1-800-752-6007 TO REACH KY 811, THE ONE-CALL SYSTEM FOR INFORMATION ON THE LOCATION OF EXISTING UNDERGROUND UTILITIES. THE CALL IS TO BE PLACED A MINIMUM OF TWO (2) AND NO MORE THAN TEN (10) BUSINESS DAYS PRIOR TO EXCAVATION. THE CONTRACTOR SHOULD BE AWARE THAT THE OWNERS OF UNDERGROUND FACILITIES ARE NOT REQUIRED TO BE MEMBERS OF THE KY 811 ONE-CALL BEFORE U-DIG (BUD) SERVICE. THE CONTRACTOR MUST COORDINATE EXCAVATION WITH THE UTILITY OWNERS, INCLUDING THOSE WHOM DO NOT SUBSCRIBE TO KY 811. IT MAY BE NECESSARY FOR THE CONTRACTOR TO CONTACT THE COUNTY CLERK TO DETERMINE WHAT UTILITY COMPANIES HAVE FACILITIES IN THE AREA.
- UNLESS OTHERWISE DIRECTED BY THE PERMIT ENGINEER OR THEIR DESIGNATED REPRESENTATIVE, ALL METHODS OF CONSTRUCTION ON KYTC ROW MUST CONFORM TO THE KENTUCKY TRANSPORTATION CABINET, DEPARTMENT OF HIGHWAYS' STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STANDARD DRAWINGS MANUAL (LATEST EDITION).
- ALL UTILITIES SHALL BE INSTALLED AT THE PROPER DEPTH. THE MINIMUM DEPTH FOR UNDERGROUND UTILITIES IS 42" EXCEPT FOR NATURAL GAS AND PETROLEUM FRACTION LINES. NATURAL GAS AND PETROLEUM FRACTION LINES SHALL HAVE A MINIMUM DEPTH OF 60".
- CONSTRUCTION METHODS OR MATERIALS THAT ALLOW VOIDS IN THE ROADWAY FOUNDATION SHALL NOT BE PERMITTED. NO BELL AND SPIGOT PIPE OR OTHER PIPE THAT DOES NOT HAVE A UNIFORM OUTSIDE DIAMETER SHALL BE PERMITTED IN BORED OR AUGURED INSTALLATIONS UNLESS THEY ARE ENCASED.

NO UNSUPPORTED BORES WILL BE PERMITTED.

- PIPE CROSSINGS 2" OR LESS SHALL NOT REQUIRE ENCASEMENT.
- UTILITIES SHALL NOT INTERFERE WITH THE SAFE USE OF THE ROADWAY, MEDIAN, AND SHOULDER AREAS, AND SHALL NOT INTERFERE WITH MAINTENANCE OPERATIONS. UTILITIES SHALL NOT BE PLACED OVER EXISTING DRAINAGE STRUCTURES. ALL UTILITIES SHALL BE INSTALLED AROUND OR BELOW EXISTING DRAINAGE STRUCTURES AT A DISTANCE WHICH WILL NOT INTERFERE WITH MAINTENANCE OPERATIONS.
- THE TRAVELED WAY OR SHOULDERS SHALL NOT BE EXCAVATED BY OPEN TRENCH METHOD UNLESS APPROVED BY THE DEPARTMENT, AND SHALL BE BACKFILLED WITH FLOWABLE FILL. IN LOCATIONS WHERE FLOWABLE FILL IS UNABLE TO DISSIPATE ITS BLEED WATER, OTHER METHODS MAY BE USED IF APPROVED BY THE DEPARTMENT. (METHODS OF SURFACE RESTORATION DUE TO OPEN TRENCH PIPE INSTALLATION IS ATTACHED)

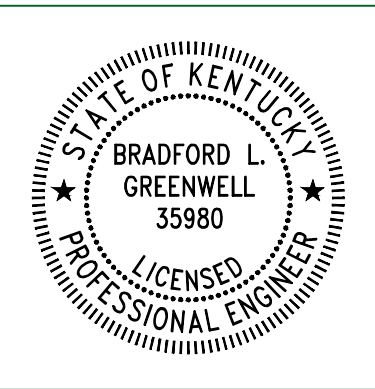
OPEN TRENCH METHOD REQUIREMENT- ROAD PLATES SHALL BE KEPT ON-SITE FOR THE DURATION OF THE WORK AS TO PERIODICALLY ALLOW TRAFFIC TO FLOW AND TO PROVIDE ACCOMMODATIONS FOR EMERGENCY VEHICLES.

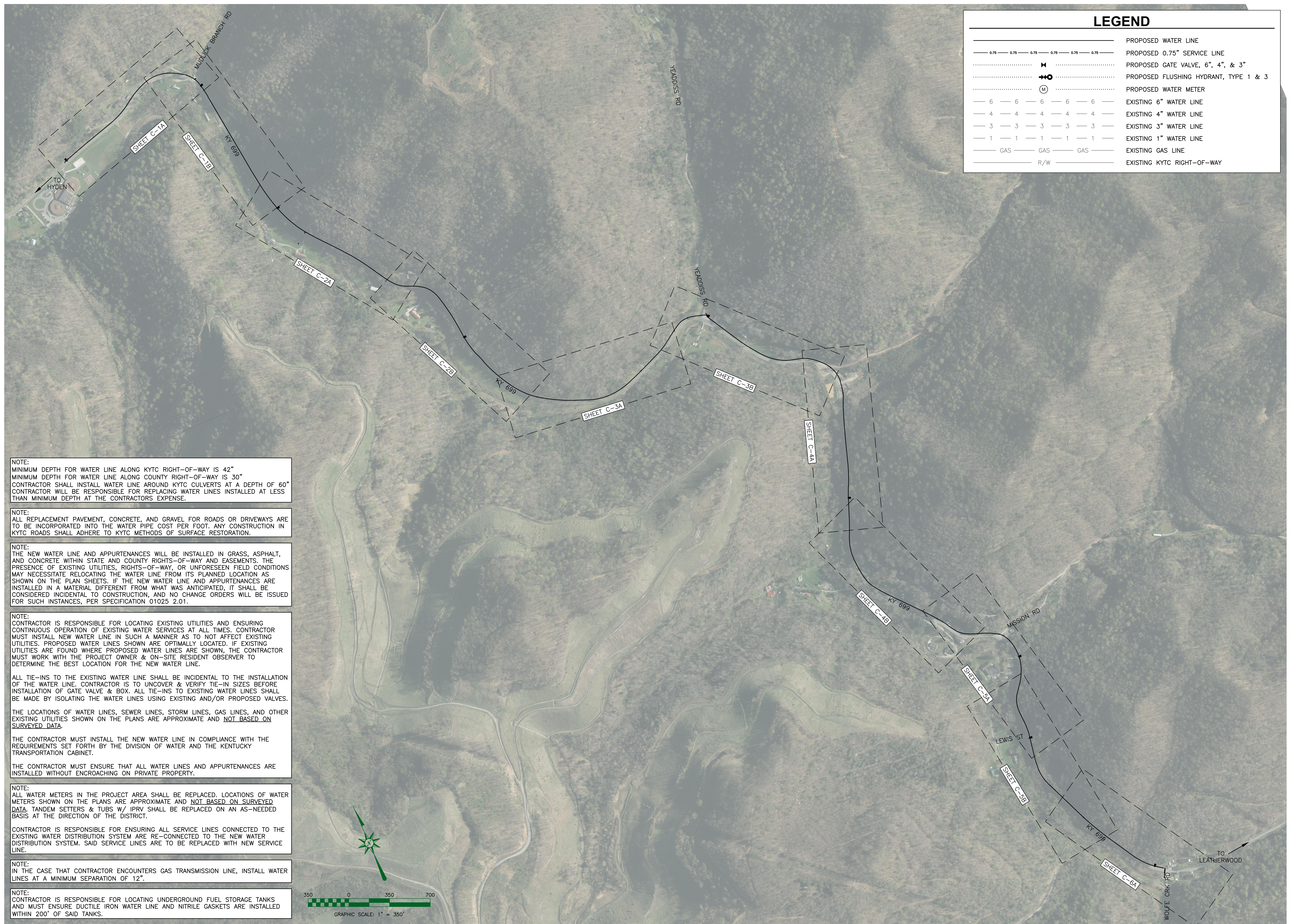
- PARALLEL LINES SHALL BE CONSTRUCTED (INSTALLED) AT THE TOE OF SLOPE OR BETWEEN THE BACK SLOPE OF THE DITCH LINE AND ROW LINE.
- THE PERMITTEE SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES AND ANY UTILITY MODIFICATIONS OR RELOCATIONS WITHIN STATE ROW NECESSARY, AS DETERMINED BY THE DEPARTMENT OR BY THE OWNER OF THE UTILITY. THESE REPAIRS AND OR RELOCATIONS ARE TO BE AT THE EXPENSE OF THE PERMITTEE AND SUBJECT TO THE APPROVAL OF THE DEPARTMENT.
- IN THE EVENT HIGHWAY ENTRANCE PIPES ARE DAMAGED AND OR REMOVED DURING THE CONSTRUCTION PROCESS THEY SHALL BE REPLACED. REPLACEMENT PIPES SHALL HAVE A MINIMUM DIAMETER OF 15" REGARDLESS OF THE PIPE DIAMETER BEING REPLACED.
- ALL PAVEMENT SHALL BE REPLACED IN ACCORDANCE WITH THE COMMONWEALTH OF KENTUCKY'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND CONDUCTED BY A QUALIFIED CONTRACTOR.
- ALL GUARDRAIL WORK SHALL BE PERFORMED BY A QUALIFIED CONTRACTOR IN ACCORDANCE WITH THE COMMONWEALTH OF KENTUCKY'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. GUARDRAIL REPAIR WORK SHALL BE COORDINATED WITH THE DEPARTMENT OF HIGHWAYS.
- TRENCH BACKFILL SHALL BE MAINTAINED IN GOOD CONDITION BY THE CONTRACTOR ON A DAILY BASIS. THE CONTRACTOR SHALL CONDUCT CLEANUP ACTIVITIES AS CONSTRUCTION PROGRESSES AND IMMEDIATELY FOLLOWING THE UTILITY INSTALLATION. ALL DISTURBED AREAS NOT DESIGNATED TO RECEIVE PAVEMENT SHALL BE RE-SEEDED A MAXIMUM OF 30 DAYS FOLLOWING BACKFILL AND CLEANUP ACTIVITIES.
- FACILITIES WITHIN THE ROW SHALL BE RESTORED TO THE EQUIVALENT OF THEIR ORIGINAL CONDITION.



nesbitt engineering, inc.

227 N. Upper Street
Lexington, Kentucky
40507-1016
Tel (859) 233-3111
Fax (859) 259-2717





NOTE:
MINIMUM DEPTH FOR WATER LINE ALONG KYTC RIGHT-OF-WAY IS 42"
MINIMUM DEPTH FOR WATER LINE ALONG COUNTY RIGHT-OF-WAY IS 30"
CONTRACTOR SHALL INSTALL WATER LINE AROUND KYTC CULVERTS AT A DEPTH OF 60"
CONTRACTOR WILL BE RESPONSIBLE FOR REPLACING WATER LINES INSTALLED AT LESS
THAN MINIMUM DEPTH AT THE CONTRACTORS EXPENSE.

DRAWING FILE LOCATION: P:\HYDEN-LESLIE COUNTY WATER DISTRICT\1218-07 CUTSHIN WL PHASE 1\=03 DESIGN\DWGS\02_WORK\CUTSHIN WL PH 1_PLAN_SHEETS.DWG

	PROPOSED WATER LINE
— 0.75 — 0.75 — 0.75 — 0.75 — 0.75 —	PROPOSED 0.75" SERVICE LINE
— 6 — 6 — 6 — 6 — 6 —	PROPOSED GATE VALVE, 6", 4", & 3"
— 4 — 4 — 4 — 4 — 4 —	PROPOSED FLUSHING HYDRANT, TYPE 1 & 3
— 3 — 3 — 3 — 3 — 3 —	PROPOSED WATER METER
— 1 — 1 — 1 — 1 — 1 —	EXISTING 6" WATER LINE
GAS GAS GAS	EXISTING 4" WATER LINE
R/W	EXISTING 3" WATER LINE
	EXISTING 1" WATER LINE
	EXISTING GAS LINE
	EXISTING KYTC RIGHT-OF-WAY

NOTE:
MINIMUM DEPTH FOR WATER LINE ALONG KYTC RIGHT-OF-WAY IS 42"
MINIMUM DEPTH FOR WATER LINE ALONG COUNTY RIGHT-OF-WAY IS 30"
CONTRACTOR SHALL INSTALL WATER LINE AROUND KYTC CULVERTS AT A DEPTH OF 60"
CONTRACTOR WILL BE RESPONSIBLE FOR REPLACING WATER LINES INSTALLED AT LESS
THAN MINIMUM DEPTH AT THE CONTRACTORS EXPENSE.

NOTE:
ALL REPLACEMENT PAVEMENT, CONCRETE, AND GRAVEL FOR ROADS OR DRIVEWAYS ARE TO BE INCORPORATED INTO THE WATER PIPE COST PER FOOT. ANY CONSTRUCTION IN KYTC ROADS SHALL ADHERE TO KYTC METHODS OF SURFACE RESTORATION.

NOTE: THE NEW WATER LINE AND APPURTENANCES WILL BE INSTALLED IN GRASS, ASPHALT, AND CONCRETE WITHIN STATE AND COUNTY RIGHTS-OF-WAY AND EASEMENTS. THE PRESENCE OF EXISTING UTILITIES, RIGHTS-OF-WAY, OR UNFORESEEN FIELD CONDITIONS MAY NECESSITATE RELOCATING THE WATER LINE FROM ITS PLANNED LOCATION AS SHOWN ON THE ATTACHED PLAN. IF THE NEW WATER LINE AND APPURTENANCES ARE INSTALLED IN A MATERIAL DIFFERENT FROM WHAT WAS ANTICIPATED, IT SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, AND NO CHANGE ORDERS WILL BE ISSUED FOR SUCH INSTANCES, PER SPECIFICATION 01025 2.01.

NOTE:
CONTRACTOR IS RESPONSIBLE FOR LOCATING EXISTING UTILITIES AND ENSURING CONTINUOUS OPERATION OF EXISTING WATER SERVICES AT ALL TIMES. CONTRACTOR MUST INSTALL NEW WATER LINE IN SUCH A MANNER AS TO NOT AFFECT EXISTING UTILITIES. PROPOSED WATER LINES SHOWN ARE OPTIMALLY LOCATED. IF EXISTING UTILITIES ARE FOUND WHERE PROPOSED WATER LINES ARE SHOWN, THE CONTRACTOR MUST WORK WITH THE PROJECT OWNER & ON-SITE RESIDENT OBSERVER TO DETERMINE THE BEST LOCATION FOR THE NEW WATER LINE.

ALL TIE-INS TO THE EXISTING WATER LINE SHALL BE INCIDENTAL TO THE INSTALLATION OF THE WATER LINE. CONTRACTOR IS TO UNCOVER & VERIFY TIE-IN SIZES BEFORE INSTALLATION OF GATE VALVE & BOX. ALL TIE-INS TO EXISTING WATER LINES SHALL BE MADE BY ISOLATING THE WATER LINES USING EXISTING AND/OR PROPOSED VALVES.

THE LOCATIONS OF WATER LINES, SEWER LINES, STORM LINES, GAS LINES, AND OTHER EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND NOT BASED ON SURVEYED DATA.

THE CONTRACTOR MUST INSTALL THE NEW WATER LINE IN COMPLIANCE WITH THE REQUIREMENTS SET FORTH BY THE DIVISION OF WATER AND THE KENTUCKY TRANSPORTATION CABINET.

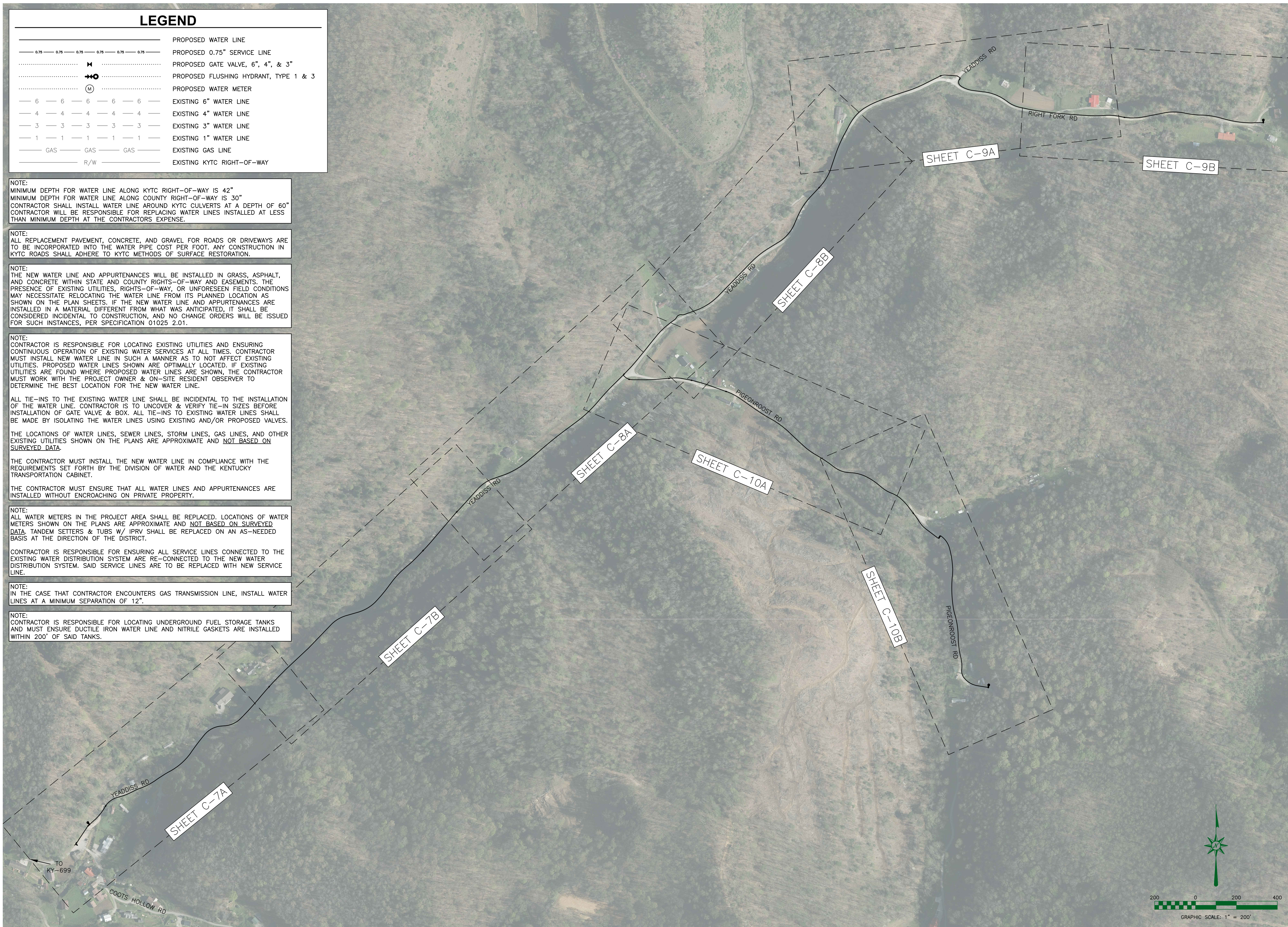
THE CONTRACTOR MUST ENSURE THAT ALL WATER LINES AND APPURTENANCES ARE INSTALLED WITHOUT ENCROACHING ON PRIVATE PROPERTY.

NOTE:
ALL WATER METERS IN THE PROJECT AREA SHALL BE REPLACED. LOCATIONS OF WATER METERS SHOWN ON THE PLANS ARE APPROXIMATE AND NOT BASED ON SURVEYED DATA. TANDEM SETTERS & TUBS W/ IPRV SHALL BE REPLACED ON AN AS-NEEDED BASIS AT THE DIRECTION OF THE DISTRICT.

CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL SERVICE LINES CONNECTED TO THE EXISTING WATER DISTRIBUTION SYSTEM ARE RE-CONNECTED TO THE NEW WATER DISTRIBUTION SYSTEM. SAID SERVICE LINES ARE TO BE REPLACED WITH NEW SERVICE LINE.

NOTE:
IN THE CASE THAT CONTRACTOR ENCOUNTERS GAS TRANSMISSION LINE, INSTALL WATER
LINES AT A MINIMUM SEPARATION OF 12".

NOTE:
CONTRACTOR IS RESPONSIBLE FOR LOCATING UNDERGROUND FUEL STORAGE TANKS
AND MUST ENSURE DUCTILE IRON WATER LINE AND NITRILE GASKETS ARE INSTALLED
WITHIN 200' OF SAID TANKS.



HYDEN--LESLIE COUNTY WATER DISTRICT
PO BOX 906
356 WENDOVER ROAD
HYDEN, KY 41749

OVERALL MAP – YEADISS RD



nesbitt engineering, inc.

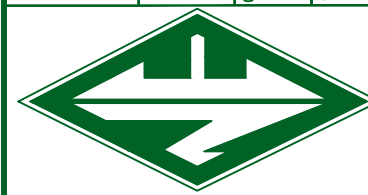
providing proven solutions since 1976

HYDEN-LESLIE COUNTY WATER DISTRICT
CUTSHIN WATER LINE REPLACEMENT PHASE 1

drawn by:	job no.:	scale:
-----------	----------	--------

SAM 1218.07 1" = 200'

AUGUST, 2025



sheet
no.

0-2

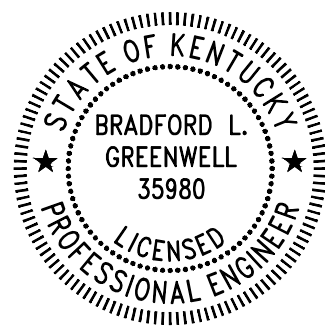
LAST PLOTTED ON: 02/21/2025 BY: MELTON, BETH
DRAWING FILE LOCATION: \\HYDEN-LESLIE\COUNTY WATER DISTRICT\2118-07 CUTSHIN RD PHASE 1\CD\DESIGN\WORKS\02 WORK\CD\CDRAW WL PH 1 PLAN SHEETS.DWG



REVISION:

HYDEN-LESLIE COUNTY WATER DISTRICT
PO BOX 906
356 WENDOVER ROAD
HYDEN, KY 41749

STA. 0+00 TO 26+00



nesbitt engineering, inc.
providing proven solutions since 1978

HYDEN-LESLIE COUNTY WATER DISTRICT
CUTSHIN WATER LINE REPLACEMENT PHASE 1

Drawn by: SAM Date: APRIL, 2025

Scale: 1" = 50'

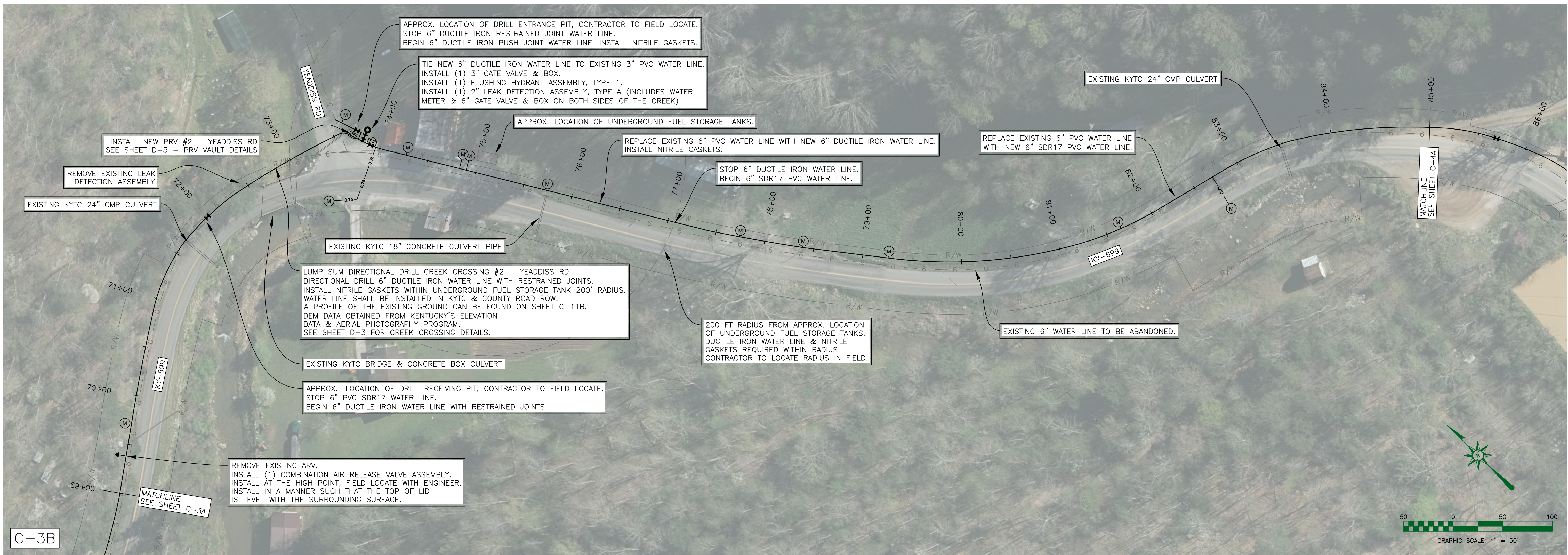
Plot No: 1218.07



Sheet
No.

C-1

LAST PLOTTED ON: 02/21/2025 BY: MELTON, SETH
DRAWING FILE LOCATION: \\HYDEN-LESLIE\COUNTY WATER DISTRICT\218-07 CUTSHIN RD PHASE 1\CD\DESIGN\WORKS\02-WORK\CD\CDRAW WL PH 1\PLAN SHEETS\DWG



REVISION:

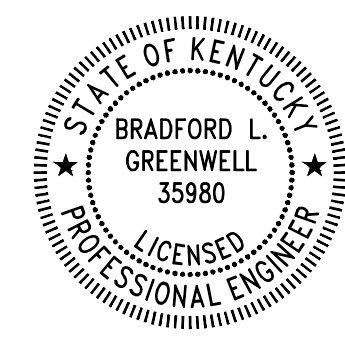
HYDEN-LESLIE COUNTY WATER DISTRICT

PO BOX 906

356 WENDOVER ROAD

HYDEN, KY 41749

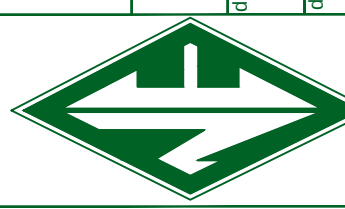
STA. 54+00 TO 85+00



nesbitt engineering, inc.
providing proven solutions since 1976

HYDEN-LESLIE COUNTY WATER DISTRICT
CUTSHIN WATER LINE REPLACEMENT PHASE 1

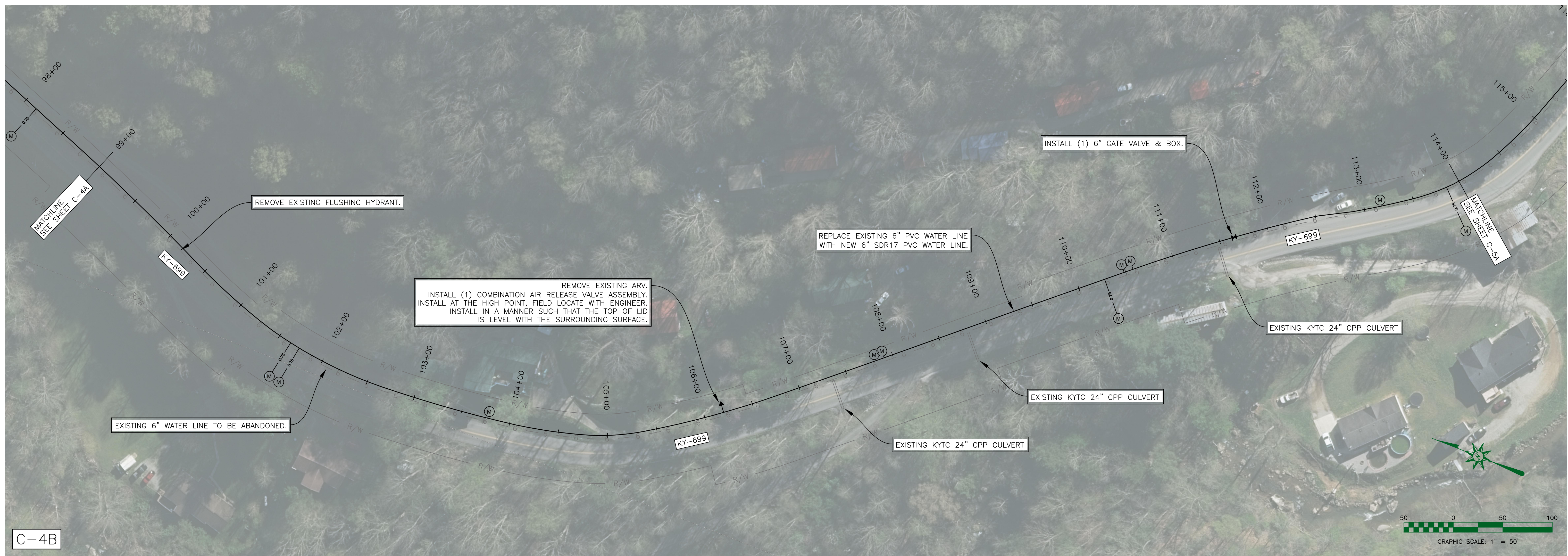
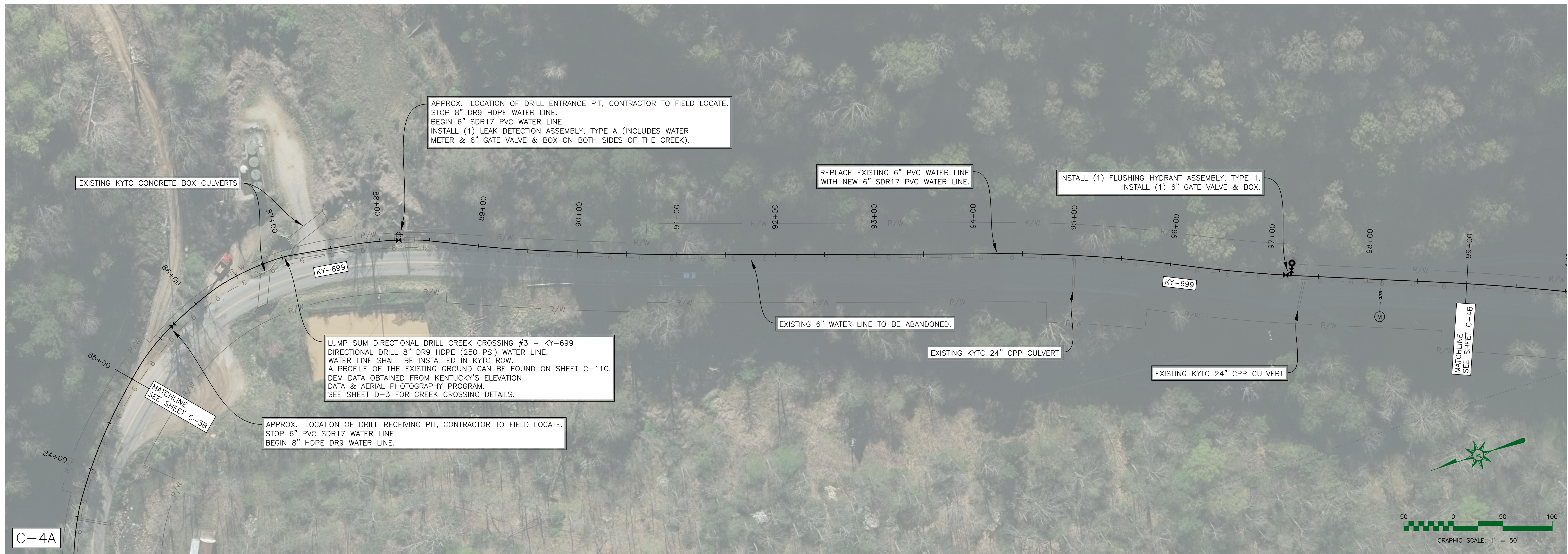
Drawn by: SAM Date: MAY, 2025
Scale: 1" = 50'
Plot No.: 1218.07



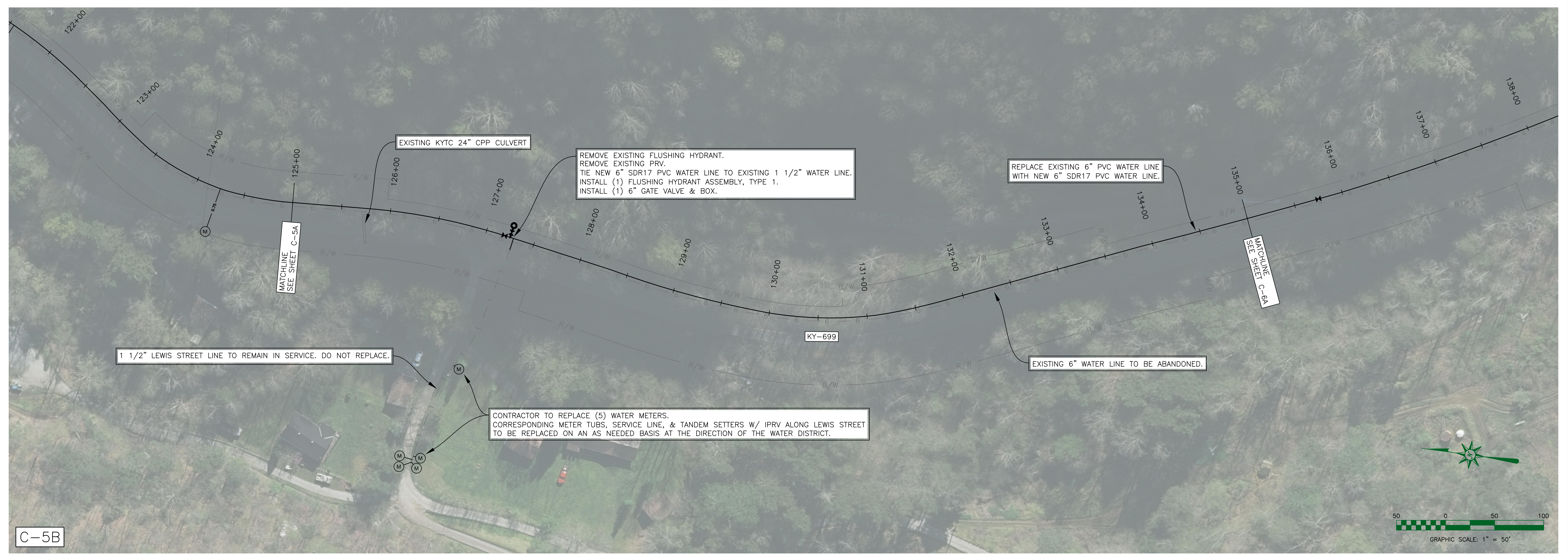
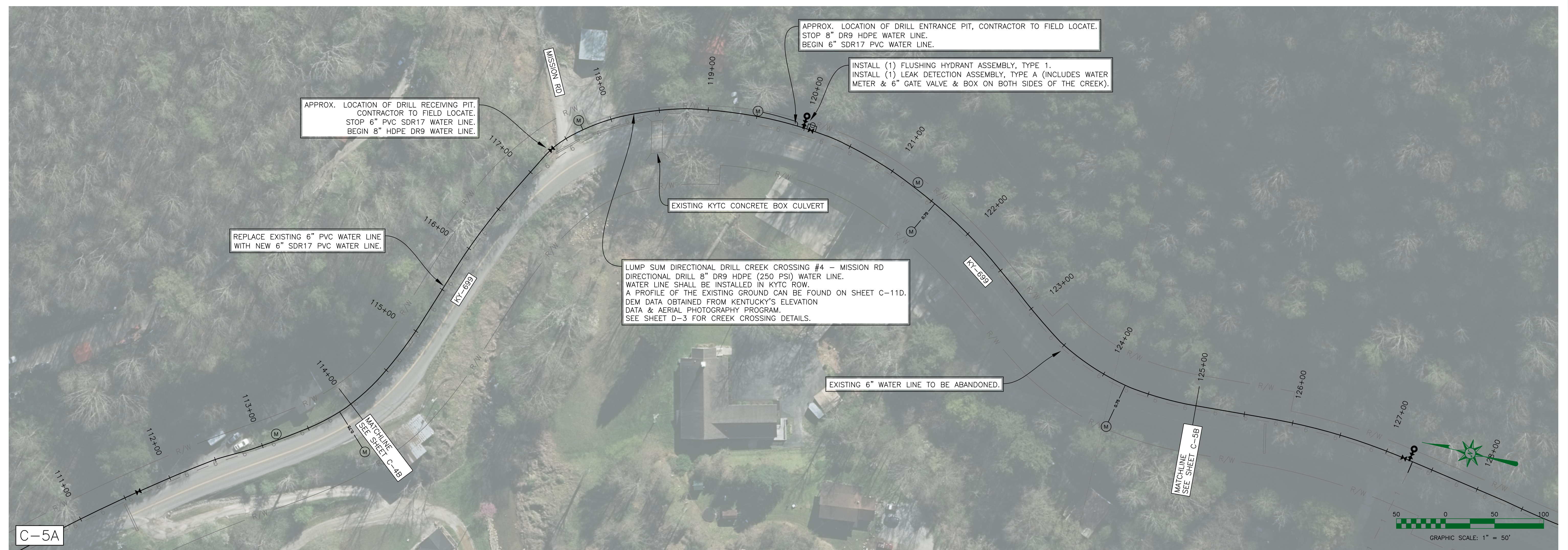
Sheet
No.

C-3

LAST PLOTTED ON: 02/21/2025 BY: MELISSA, SEYM
DRAWING FILE LOCATION: HYDEN-LESLIE COUNTY WATER DISTRICT\218-07 CUTSHIN WATER LINE REPLACEMENT PHASE 1\C-03 DESIGNS\WORKS\02 WORK\02\DRIN WL PH PLAN SHEETS\DWG

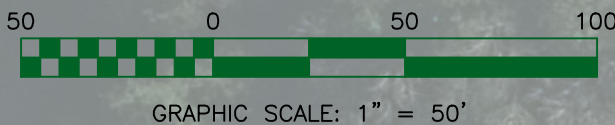


	HYDEN-LESLIE COUNTY WATER DISTRICT CUTSHIN WATER LINE REPLACEMENT PHASE 1	
	Drawn by: SAM	Date: APRIL, 2025
	HYDEN-LESLIE COUNTY WATER DISTRICT PO BOX 906 356 WENDOVER ROAD HYDEN, KY 41749	
	STA. 85+00 TO 114+00	
Sheet No.	C-4	



LAST PLOTTED ON: 02/21/2025 BY: MELTON, SETH DRAWING FILE LOCATION: P:\HYDEN-LESLIE COUNTY WATER DISTRICT\1218-07 CUTSHIN RD PHASE 1\CD\DESIGN\DWG\02-WORK\CD\SHIN WL PH 1\PLAN SHEETS\DWG

C-6A



THIS SHEET INTENTIONALLY LEFT BLANK

C-6B

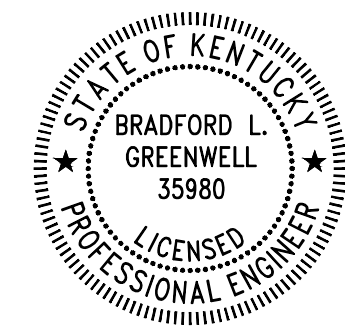


nesbitt engineering, inc.
providing proven solutions since 1976

HYDEN-LESLIE COUNTY WATER DISTRICT
CUTSHIN WATER LINE REPLACEMENT PHASE 1

Drawn by: SAM Date: 1218.07 Scale: 1" = 50'

APRIL, 2025



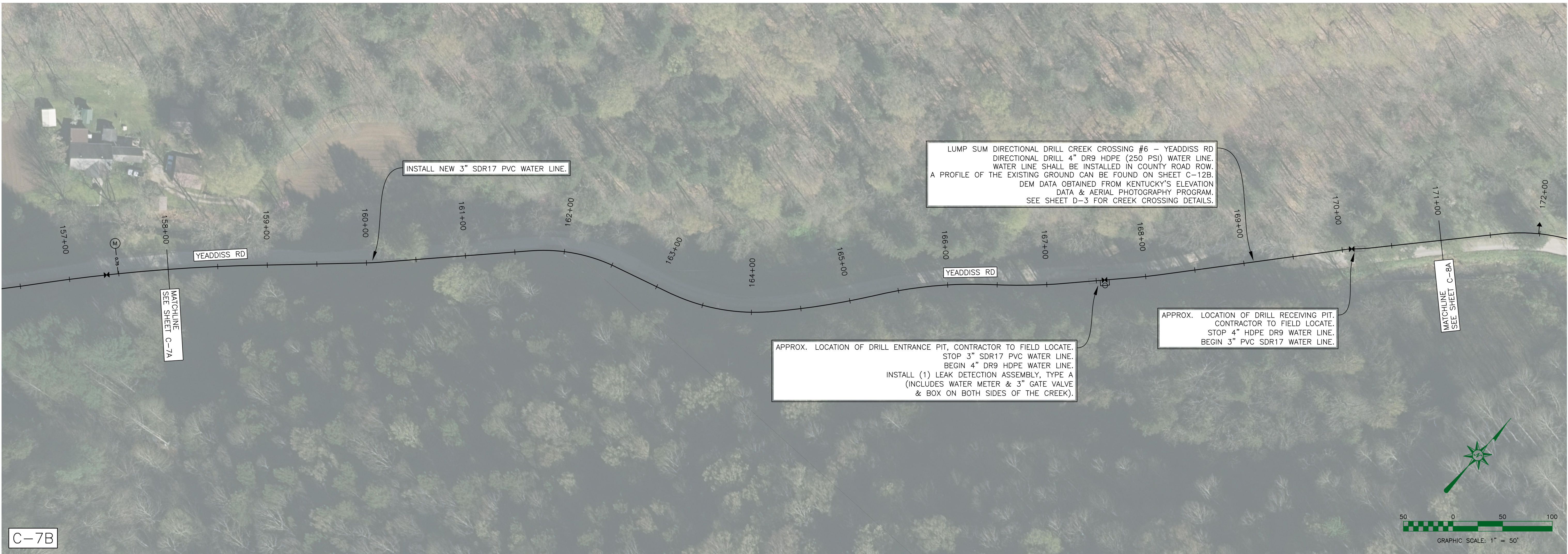
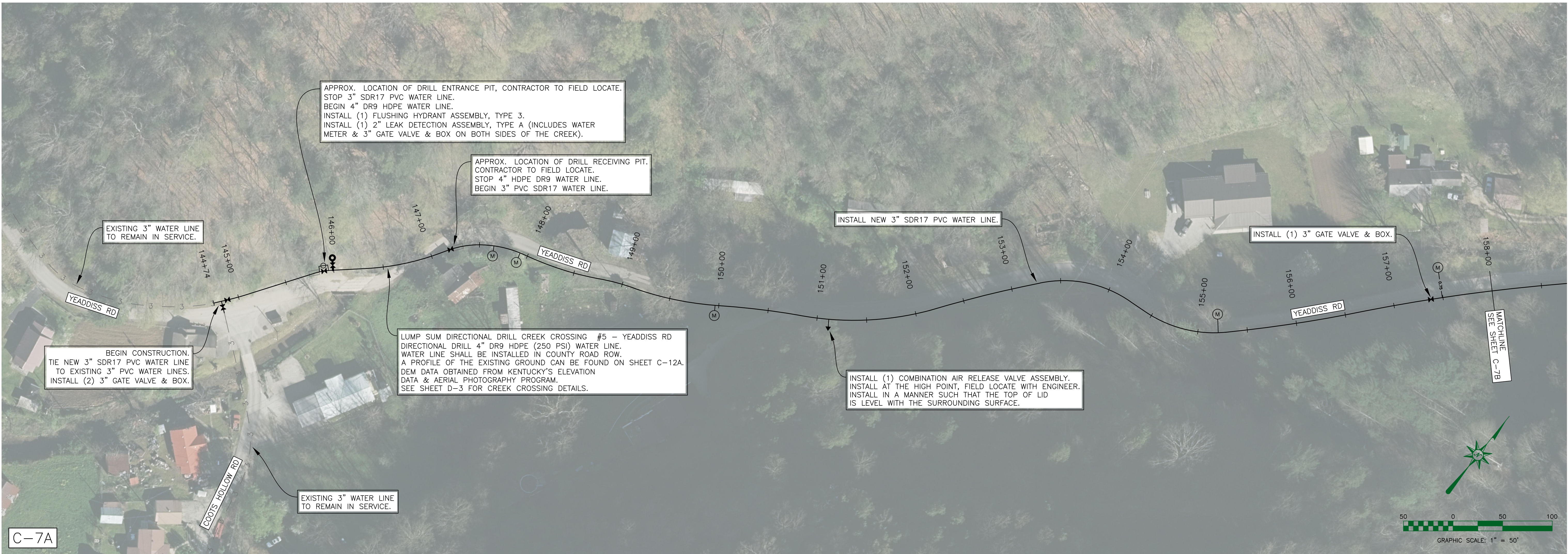
HYDEN-LESLIE COUNTY WATER DISTRICT
PO BOX 906
356 WENDOVER ROAD
HYDEN, KY 41749

STA. 135+00 TO 144+74

C-6

Sheet
no.

LAST PLOTTED ON: 4/12/2025 BY: MELTON, SETH
DRAWING FILE LOCATION: P:\HYDEN-LESLIE COUNTY WATER DISTRICT\218-07 CUTSHIN RD PHASE 1\CD\DESIGN\WDS\02-WORK\CD\DRN WL PH 1 PLAN SHEETS.DWG



REVISION:

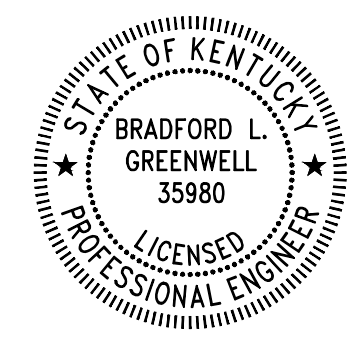
HYDEN-LESLIE COUNTY WATER DISTRICT

PO BOX 906

356 WENDOVER ROAD

HYDEN, KY 41749

STA. 144+74 TO 171+00

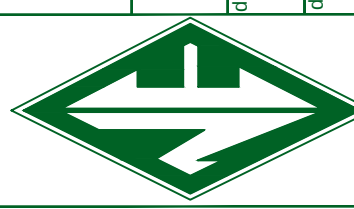


nesbitt engineering, inc.
providing proven solutions since 1976

HYDEN-LESLIE COUNTY WATER DISTRICT
CUTSHIN WATER LINE REPLACEMENT PHASE 1

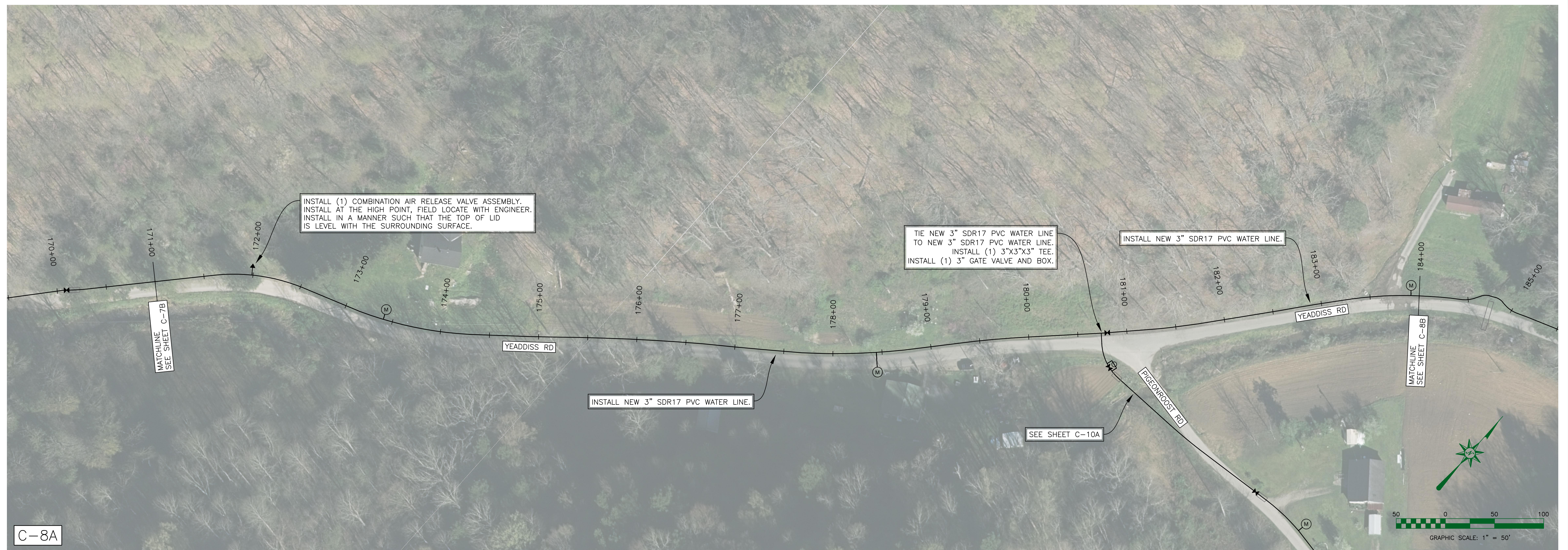
Drawn by: SAM Date: APRIL, 2025

Scale: 1" = 50'



Sheet no.

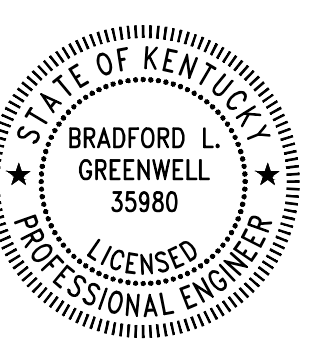
C-7



LAST PLOTTED ON: 4/10/2025 BY: MELTON, SETH
DRAWING FILE LOCATION: P:\HYDEN-LESLIE COUNTY WATER DISTRICT\1218-07 CUTSHIN WL PHASE 1\=03 DESIGN\DWG\02_WORK\CUTSHIN WL PH 1_PLAN_SHEETS.DWG

PO BOX 906
356 WENDOVER ROAD
HYDEN, KY 41749

SIA. 1/1+00 10 19/+00



nesbitt engineering, inc.
providing proven solutions since 1976

HYDEN-LESLIE COUNTY WATER DISTRICT
CUTSHIN WATER LINE REPLACEMENT PHASE 1

SAM	1218.07	1" = 50'
-----	---------	----------

1218.07	1" = 50'
---------	----------



C-8

LAST PLOTTED ON: 02/21/2025 BY: MELTON, BETH
DRAWING FILE LOCATION: HYDEN-LESLIE COUNTY WATER DISTRICT\219+47 CUTSHIN W. PHASE 1\CD\DESIGN\WORKS\2025\HYDEN-LESLIE COUNTY WATER DISTRICT\219+47 CUTSHIN W. PHASE 1\PLAN SHEETS\DWG



Sheet
no. C-9

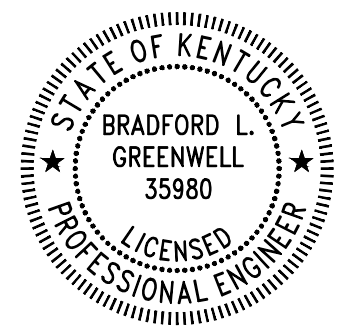
nesbitt engineering, inc.
providing proven solutions since 1976

HYDEN-LESLIE COUNTY WATER DISTRICT
CUTSHIN WATER LINE REPLACEMENT PHASE 1

Drawn by: SAM Date: APRIL, 2025

Scale: 1" = 50'

Job No.: 1218.07

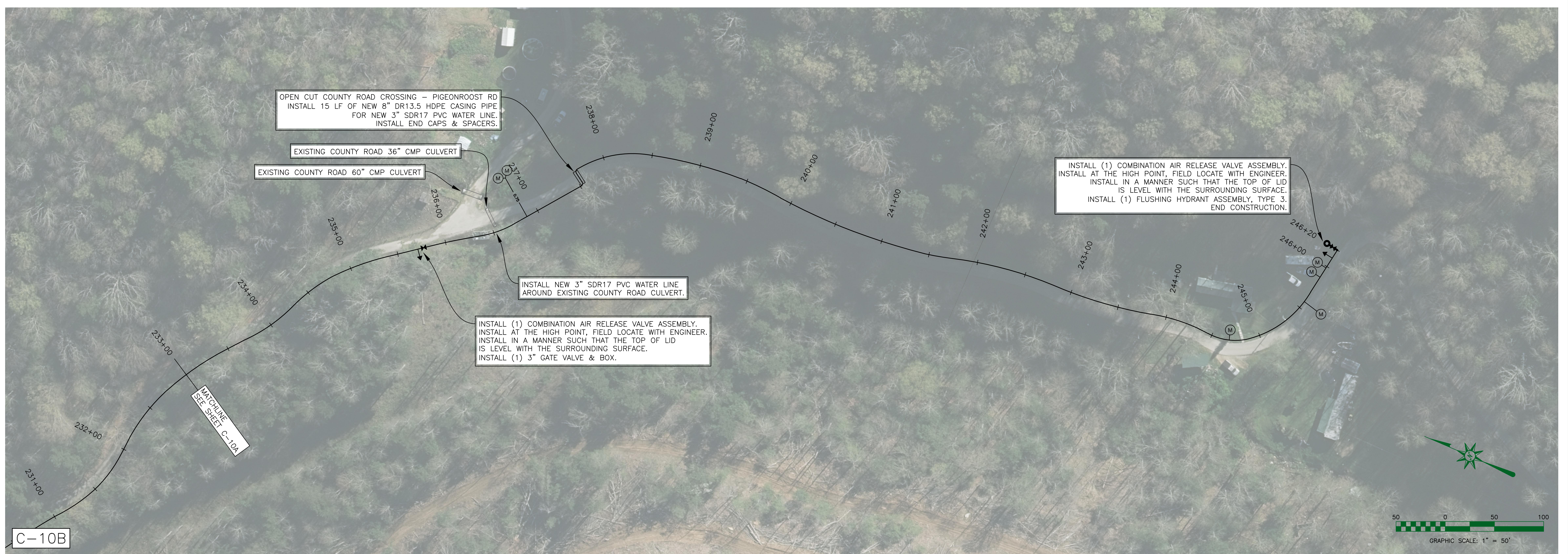
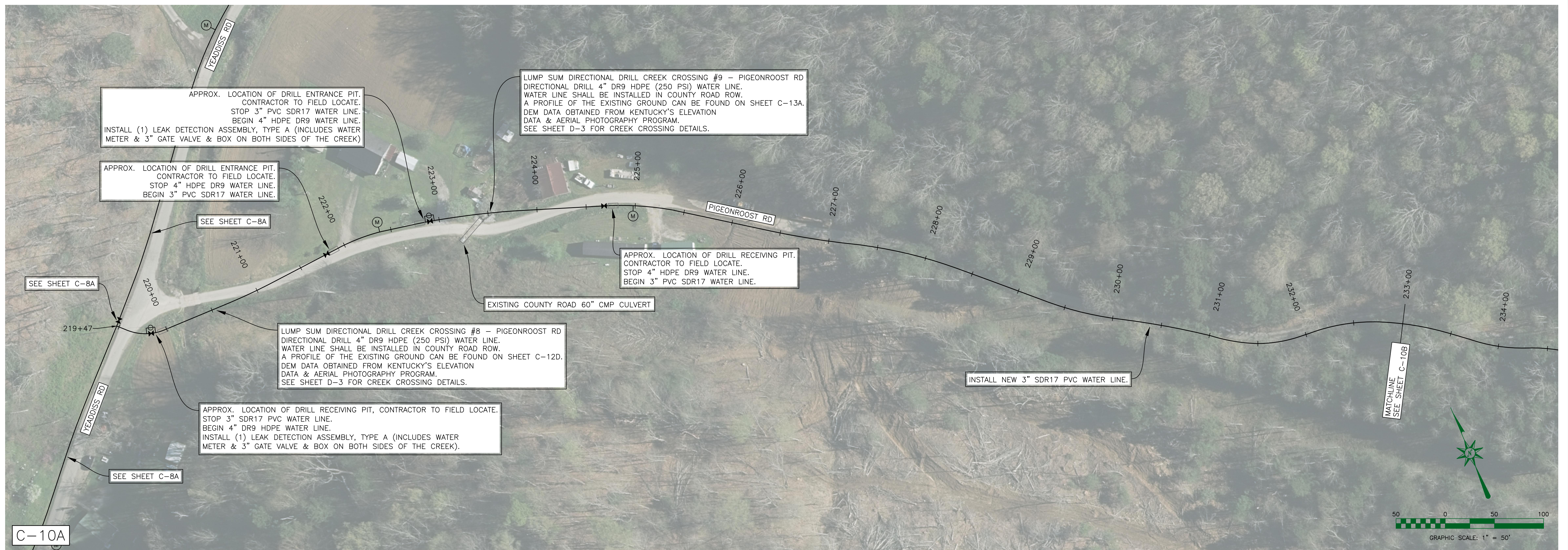


HYDEN-LESLIE COUNTY WATER DISTRICT

PO BOX 906
356 WENDOVER ROAD
HYDEN, KY 41749

STA. 197+00 TO 219+47

REVISION:



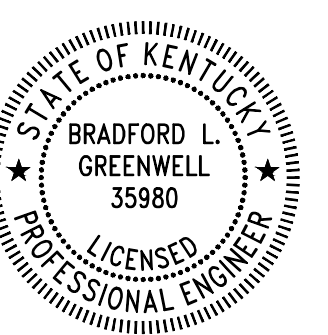
HYDEN-LESLIE COUNTY WATER DISTRICT
PO BOX 906
LESLIE, NE 68046

356 WENDOVER ROAD

HYDEN, KY 41749

[illegible]

S/A. 219+4/10 246+20



nesbitt engineering, inc.
providing proven solutions since 1976

[illegible]

job no.:	101807	Scale:
----------	--------	--------

row no.:	1218.07	1" =
Scale:		

25

25

25

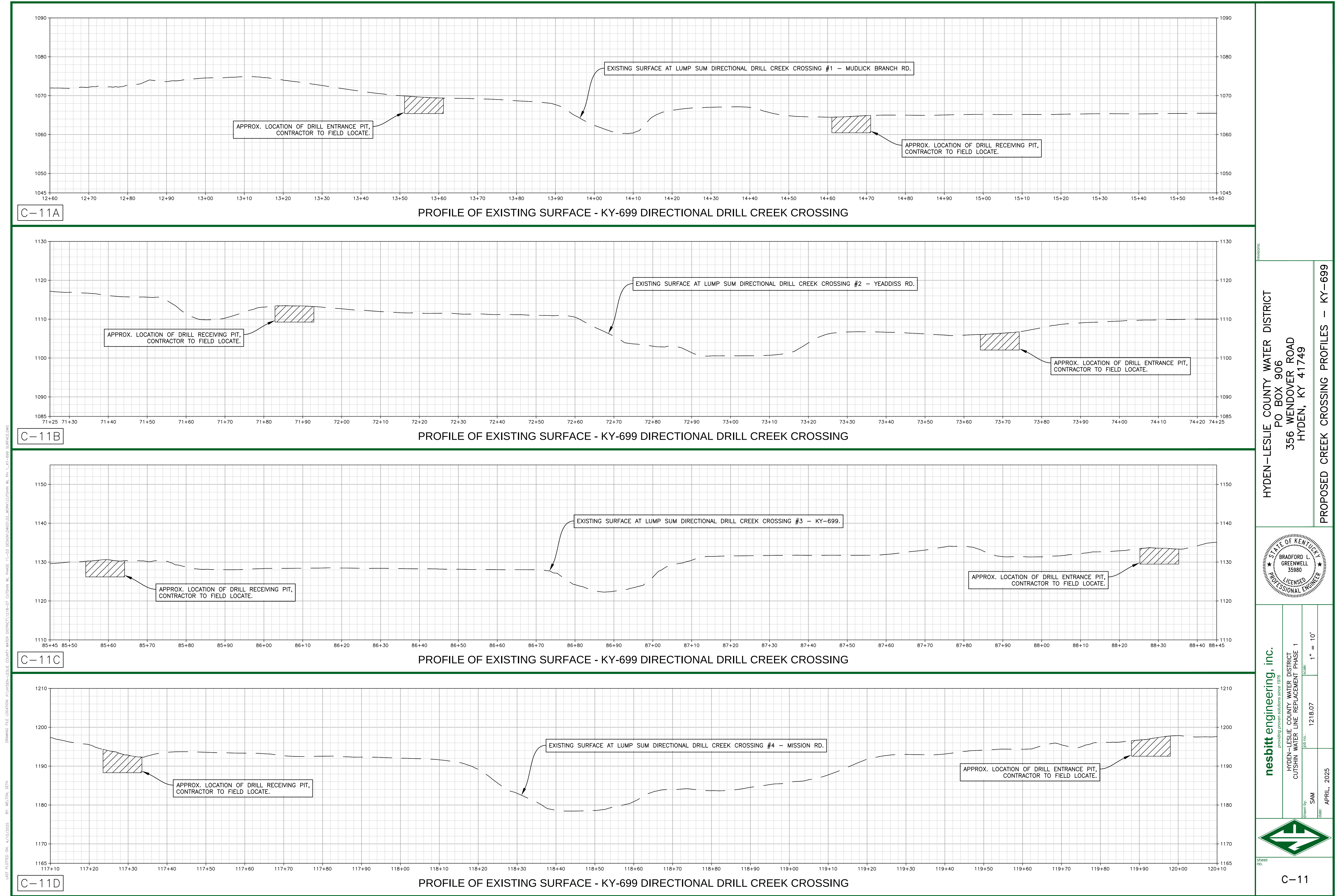
25



et

et

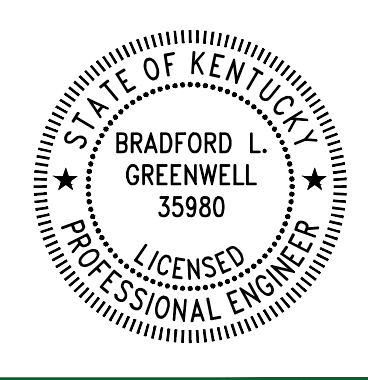
-10



PROPOSED

HYDEN-LESLIE COUNTY WATER DISTRICT
PO BOX 906
356 WENDOVER ROAD
HYDEN, KY 41749

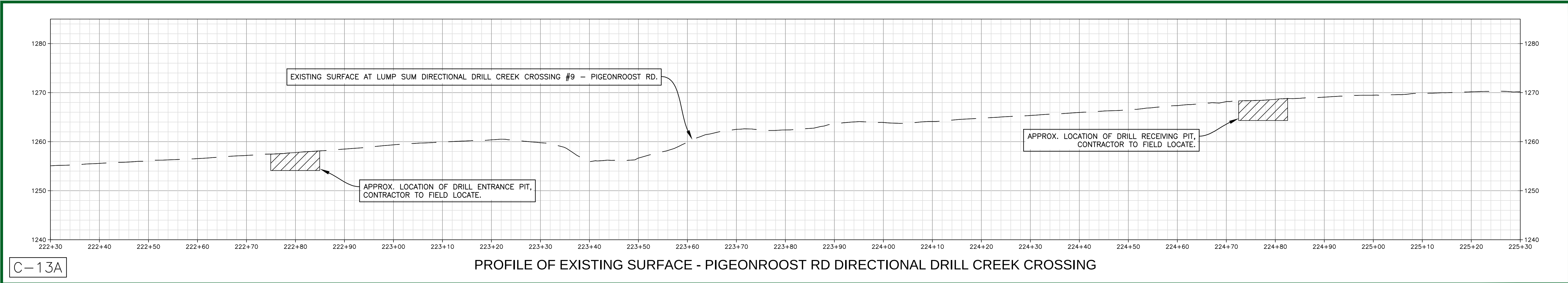
PROPOSED CREEK CROSSING PROFILES - KY-699



nesbitt engineering, inc. providing proven solutions since 1976	
HYDEN-LESLIE COUNTY WATER DISTRICT CUTSHIN WATER LINE REPLACEMENT PHASE 1	
Drawn by: SAM	Scale: 1" = 10'
Date: APRIL, 2025	Plot No.: 1218.07



Sheet no.
C-11



THIS SHEET IS INTENTIONALLY LEFT BLANK

C-13B

THIS SHEET IS INTENTIONALLY LEFT BLANK

C-13C

THIS SHEET IS INTENTIONALLY LEFT BLANK

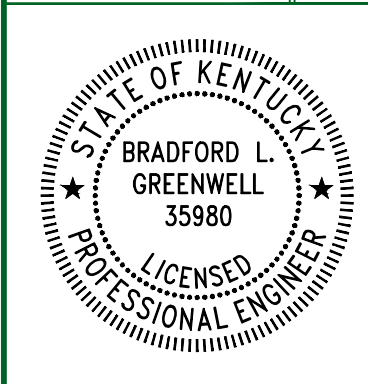
C-13D

LAST PLOTTED ON: 07/20/2025 BY: GREENWELL, BRADFORD DRAWING FILE LOCATION: P:\HYDEN-LESLIE COUNTY WATER DISTRICT\1218-07 CUTSHIN WL PHASE 1\c13 DIRECTIONAL DRILL CREEK CROSSING WL PHASE 1\STATIONS SURFACING

PROPOSED

HYDEN-LESLIE COUNTY WATER DISTRICT
PO BOX 906
356 WENDOVER ROAD
HYDEN, KY 41749

PROPOSED CREEK CROSSING PROFILES - PIGEONROOST





HYDEN-LESLIE COUNTY WATER DISTRICT
CUTSHIN WATER LINE REPLACEMENT PHASE 1

Drawn by: SAM

Scale: 1" = 10'

Date: APRIL, 2025

Job No.: 1218.07



Sheet No. C-13

DRAWING FILE LOCATION: P:\HYDEN-LESLIE COUNTY WATER DISTRICT\1218-07 CUISIN W. WATER LINE REPLACEMENT\1218-07 STANDARDS DETAILS 2.DWG
REV: 02/24/2025
LAST PLOTTED ON: 4/24/2025

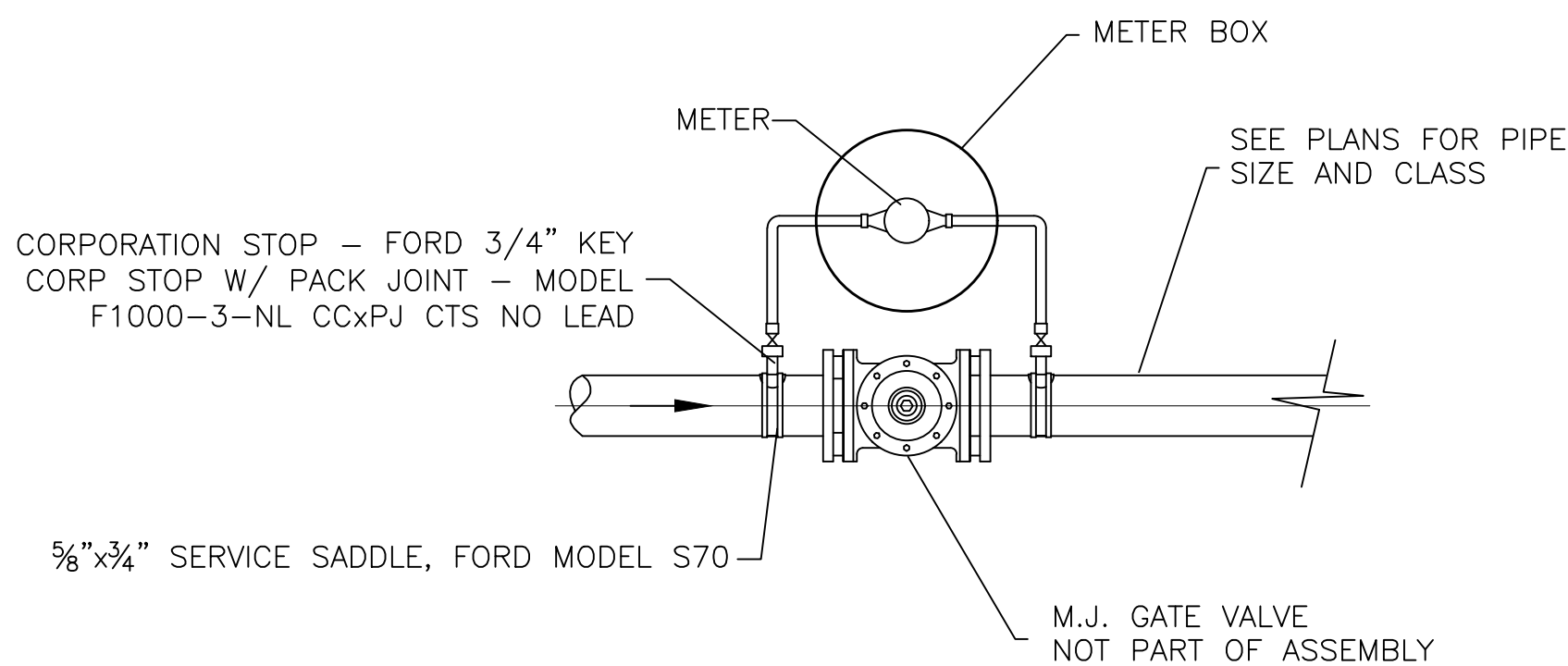
NOTE: PLASTIC INSERT/PIPE STIFFENERS ONLY (NO METAL) AT SERVICE LINE CONNECTIONS.

METER SETTING

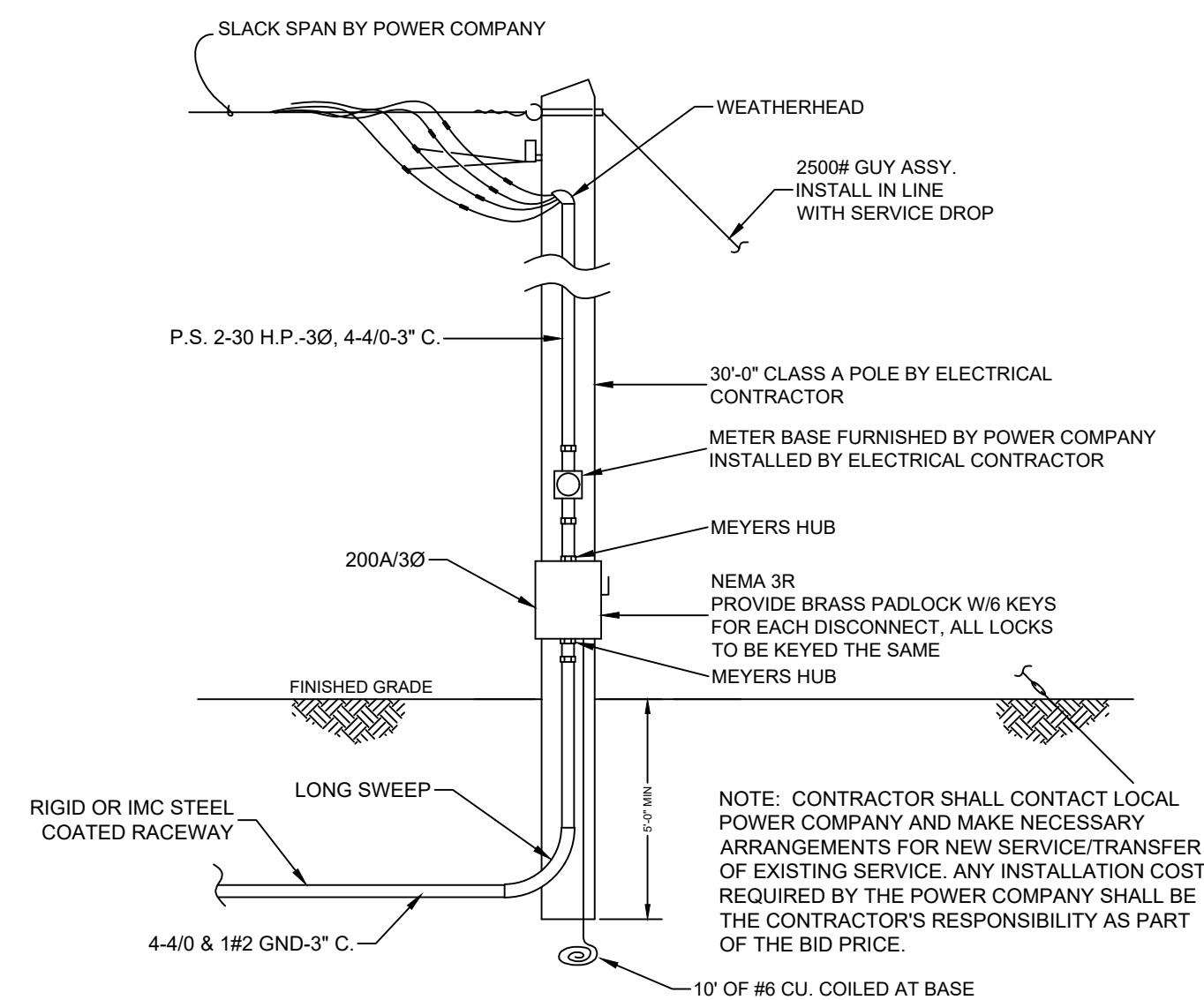
1. YOKE - 5/8"x3/4" FORD BALL X BALL SETTER W/ PACK JOINT
2. METER BOX-18"x24" DEEP, MID-STATE PLASTICS, INC. ROUND METER BOX, B SERIES OR APPROVED EQUAL
3. COVER-18"x6" CAST IRON FLAT METER BOX LID W/ PRE-CUT 2" RADIO READ HOLE

TIE TO WATER MAIN

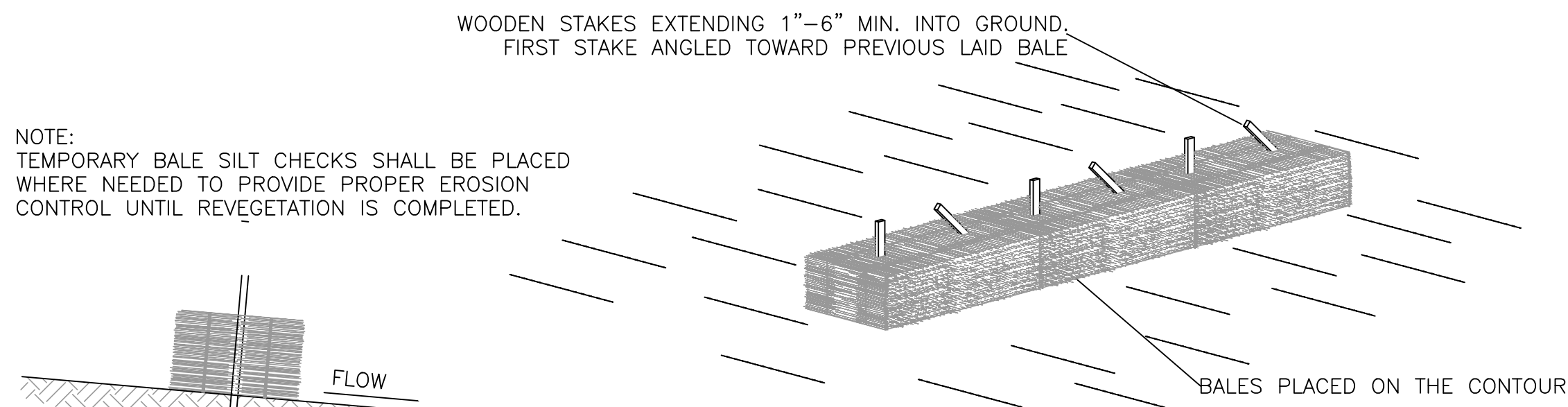
GROUND KEY CORPORATION STOP - FORD 3/4" KEY CORP STOP W/ PACK JOINT - MODEL F1000-3-NL CCxPJ CTS NO LEAD
SERVICE SADDLE - FORD S70 BRASS SADDLE



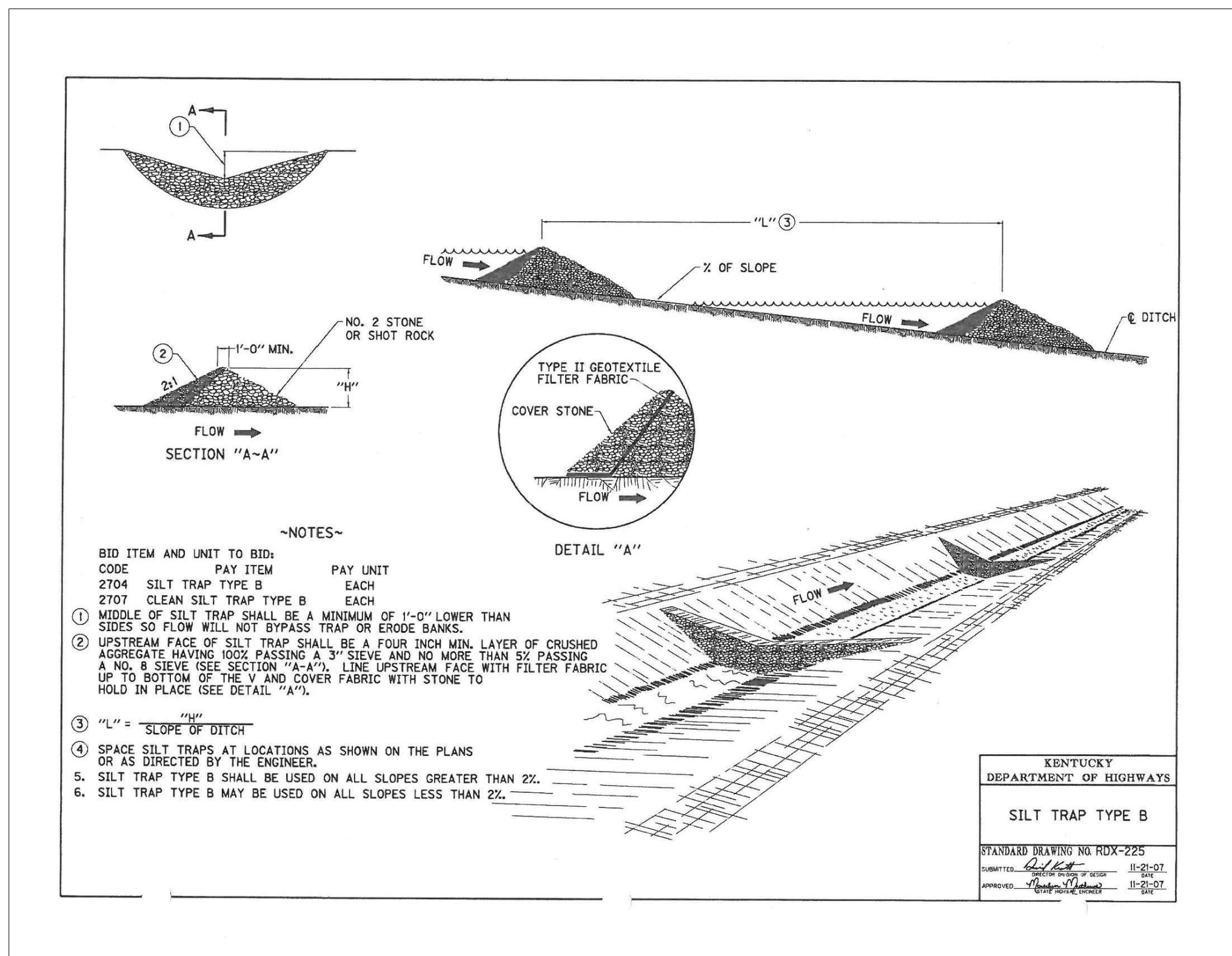
PLAN
FLOW MONITORING PIT ASSEMBLY



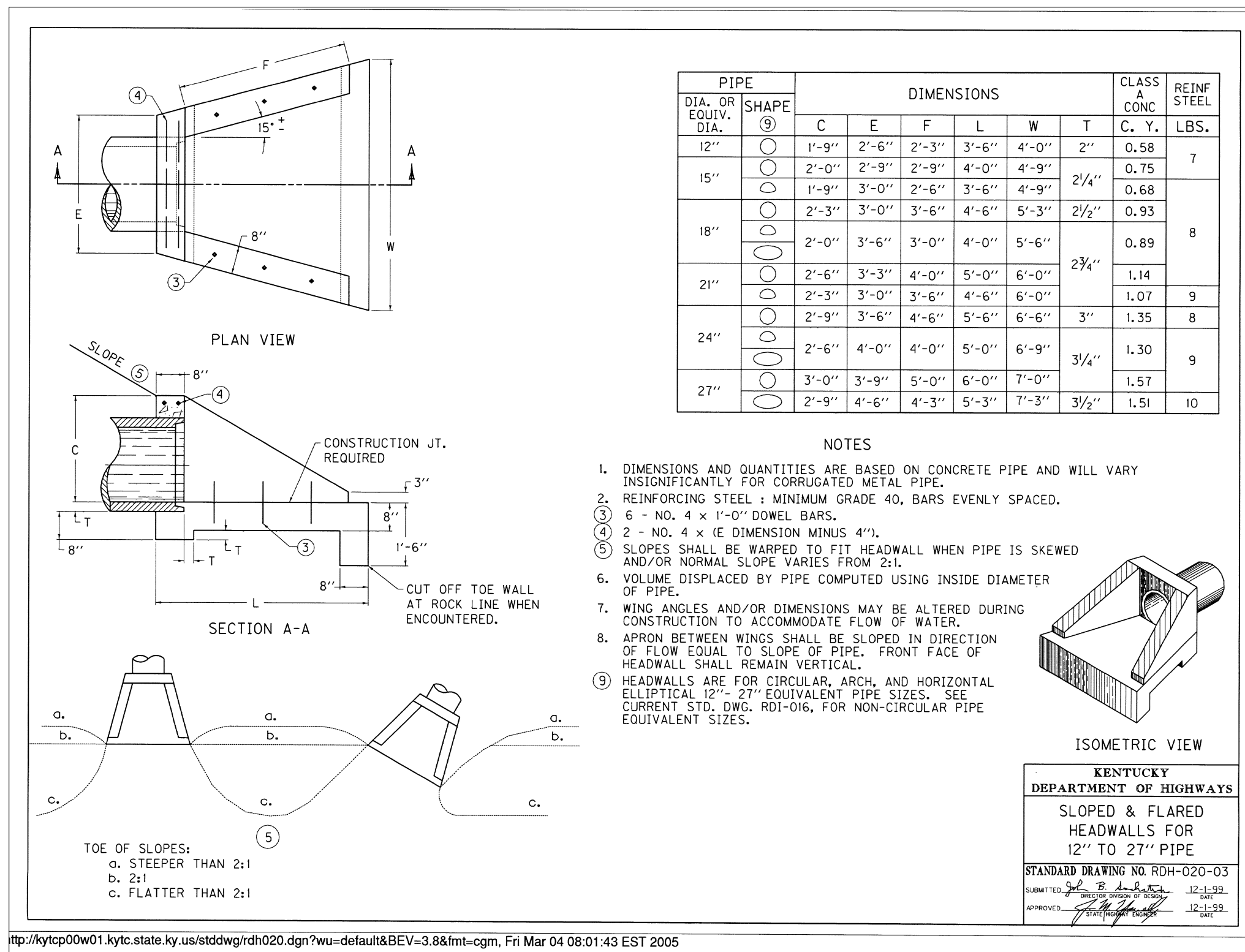
ELECTRICAL POLE DETAIL
NOT TO SCALE



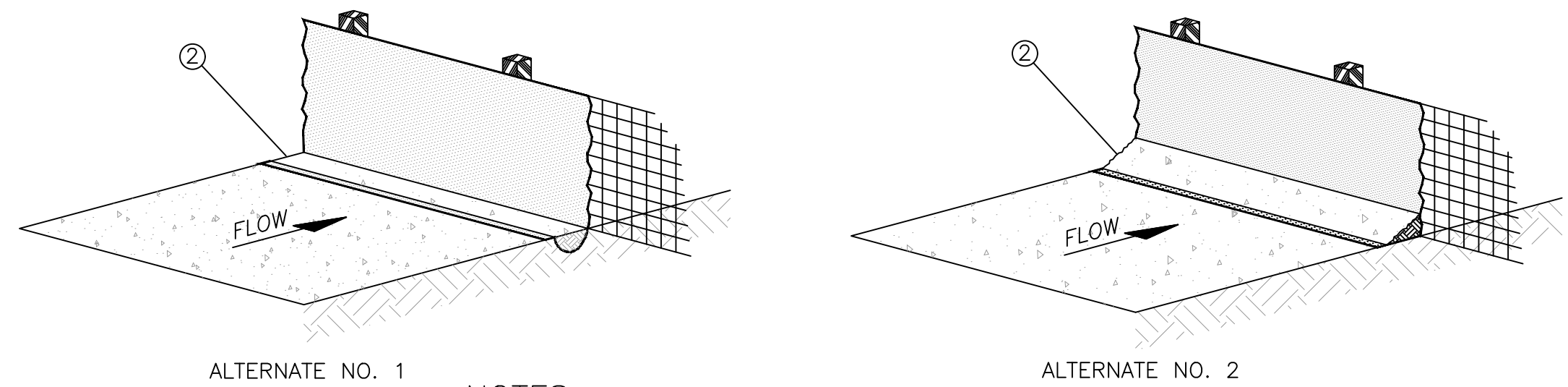
STRAW BALE SILT CHECK SEDIMENTATION
CONTROL
NOT TO SCALE



ROCK CHECK DAM DETAIL



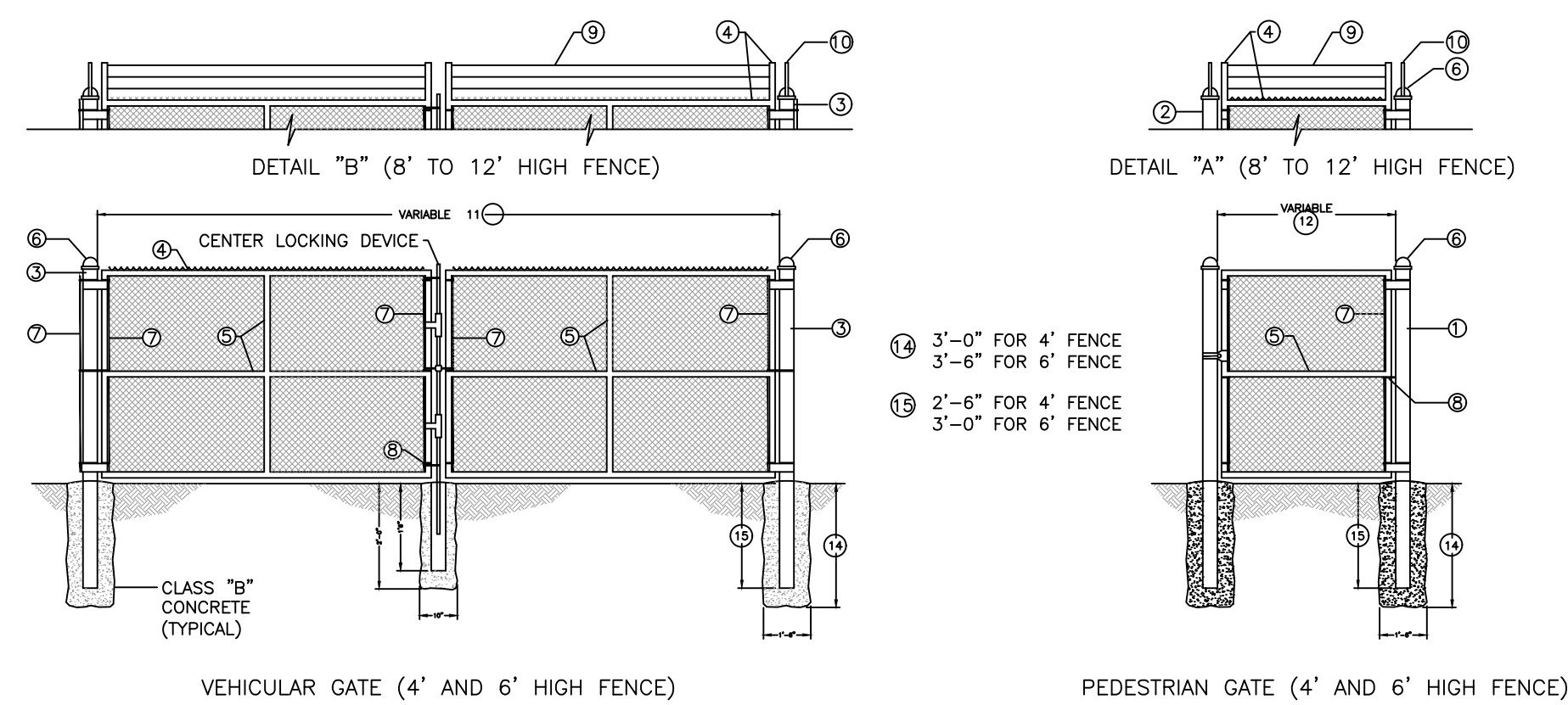
KTC STANDARD DRAWING RDH-020-03



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

ALL POSTS SHALL BE SET IN CONCRETE TO THE DIMENSIONS AS INDICATED ON THIS DRAWINGS.

VEHICULAR AND PEDESTRIAN GATES SHALL HAVE HEAVY PRESSED STEEL CORNERS SECURELY RIVETED OR SHALL BE MACHINE NOTCHED, AND ELECTRICALLY WELDED SO AS TO RIGID AND WATER TIGHT; AND EQUIPPED WITH PADLOCKING DEVICE AND GROUND STOP.

ALL WELDED JOINTS SHALL BE CLEANED AND PAINTED WITH TWO (2) COATS OF ALUMINUM PAINT.

4' HIGH GATES SHALL HAVE 4' FABRIC HEIGHT. 6' HIGH GATES SHALL HAVE 6' FABRIC HEIGHT. 8' HIGH GATES SHALL HAVE 8' FABRIC HEIGHT. 9' HIGH GATES SHALL HAVE 9' FABRIC HEIGHT. 10' HIGH GATES SHALL HAVE 10' FABRIC HEIGHT. 11' HIGH GATES SHALL HAVE 11' FABRIC HEIGHT. 12' HIGH GATES SHALL HAVE 12' FABRIC HEIGHT.

BARBED WIRE IS REQUIRED ON 8' TO 12' HIGH GATES. SEE DETAIL "A" AND "B" FOR INSTALLATION.

THE CONTRACTOR IS NOT TO ORDER GATES UNTIL THEIR NECESSITY AND LOCATION HAVE BEEN CERTIFIED BY THE ENGINEER.

O.D. DEPICTED FOR TUBULAR POSTS IS NOMINAL - ASTM F 1083 SHALL GOVERN.

ALL FENCE FITTINGS SHALL COMPLY WITH ASTM F 626.

1. 6' TO 13' WIDTH FOR SINGLE GATE OR 12' TO 26' WIDTH FOR DOUBLE GATE.

2. 4' TO 6' WIDTH.

THE CONTRACT UNIT PRICE FOR CHAIN LINK GATES SHALL BE:

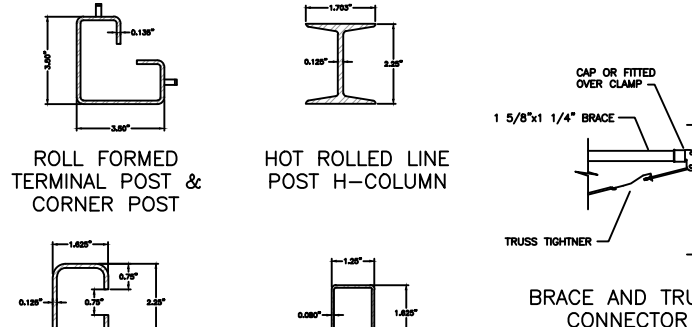
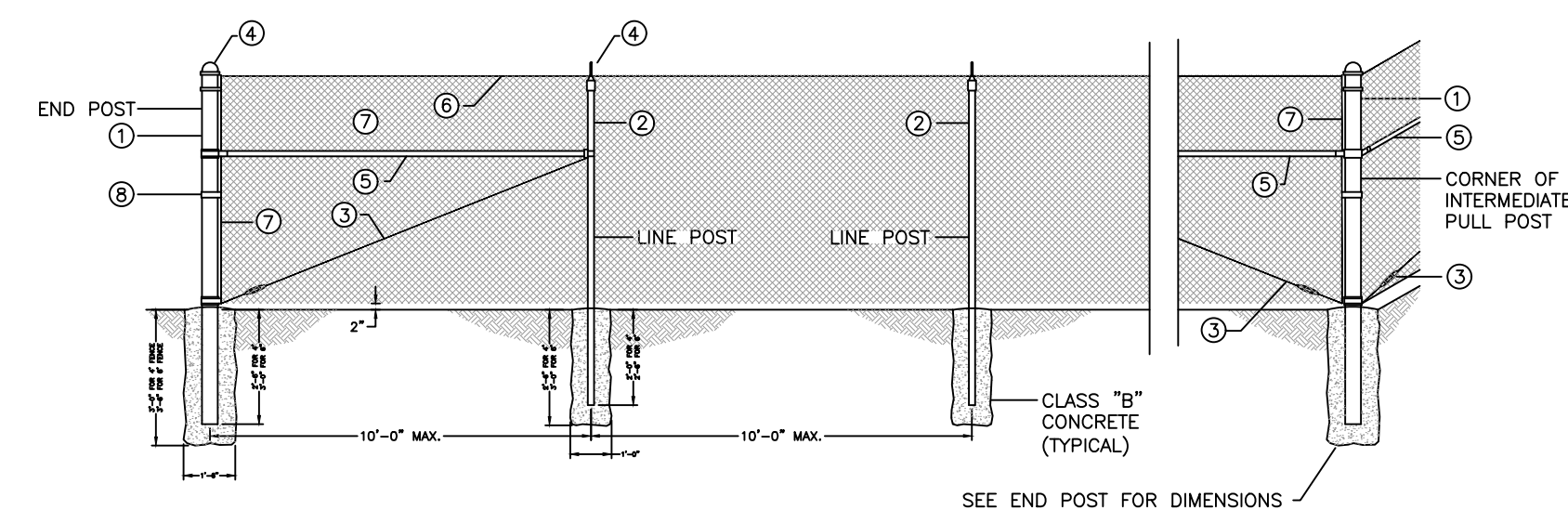
1. FEET WIDE SINGLE VEHICULAR CHAIN LINK GATE 13 HIGH.

2. FEET WIDE DOUBLE VEHICULAR CHAIN LINK GATE 13 HIGH.

3. FEET WIDE PEDESTRIAN CHAIN LINK GATE 13 HIGH.

4. AS SHOWN ON PLANS.

CHAIN LINK GATE DETAIL



LEGEND - (ALTERNATIVES)	
TUBULAR	ROLL FORMED
1. 2 1/2" OD @ 3.65#/LF	3.5"x3.5" @ 5.10#/LF
2. 2" OD @ 2.72#/LF	2.25" H-COL @ 3.26#/LF OR 2.25" C-COL @ 2.70#/LF
3. 3/8" DIA. TRUSS ROD AND TIGHTENER	3/8" DIA. TRUSS ROD AND TIGHTENER
4. APPROVED CAPS	NOT REQUIRED
5. 1/2" AC BRACE @ 2.27#/LF	1.25"x1.25" @ 1.40#/LF
6. 1/2" AC TOP @ 2.27#/LF	NOT REQUIRED
7. FLAT TENSION BAR	NOT REQUIRED
8. BRACE BAND AND TENSION BAND	NOT REQUIRED

NOTES

ALL POSTS SHALL BE SET IN CONCRETE TO THE DIMENSIONS AS INDICATED ON THIS DRAWINGS.

4' HIGH FENCE SHALL HAVE 4' FABRIC HEIGHT. 6' HIGH FENCE SHALL HAVE 6' FABRIC HEIGHT.

ALL FENCE FITTINGS SHALL COMPLY WITH ASTM F 626.

POST CAPS AND SOCKET TYPE BRACE END CONNECTIONS SHALL BE GALVANIZED PRESSED STEEL, CAST IRON OR OTHER TYPE AS APPROVED BY THE ENGINEER. THEY SHALL BE DESIGNED IN A MANNER TO EXCLUDE MOISTURE FROM INSIDE POSTS AND RAILS.

O.D. DEPICTED FOR TUBULAR POSTS IS NOMINAL - ASTM F 1083 SHALL GOVERN.

STRUCTURAL SHAPES SHALL CONFORM TO STD. SPEC. 816.07.01 EXCEPT YIELD SHALL BE A MIN. 45,000 PSI.

INDISCRIMINATE MIXING OF POSTS WILL NOT BE PERMITTED.

TENSION WIRE COMPLYING WITH ASTM A 824 SHALL BE SUBSTITUTED FOR THE TOP RAIL WHEN THE FENCE IS TO BE INSTALLED IN THE PATH OF AN EVASANT VEHICLE.

CHAIN LINK FENCE DETAIL

HYDEN-LESLIE COUNTY WATER DISTRICT
PO BOX 906
356 WENDOVER ROAD
HYDEN, KY 41749

STANDARD DETAILS 2



nesbitt engineering, inc.
providing proven solutions since 1978

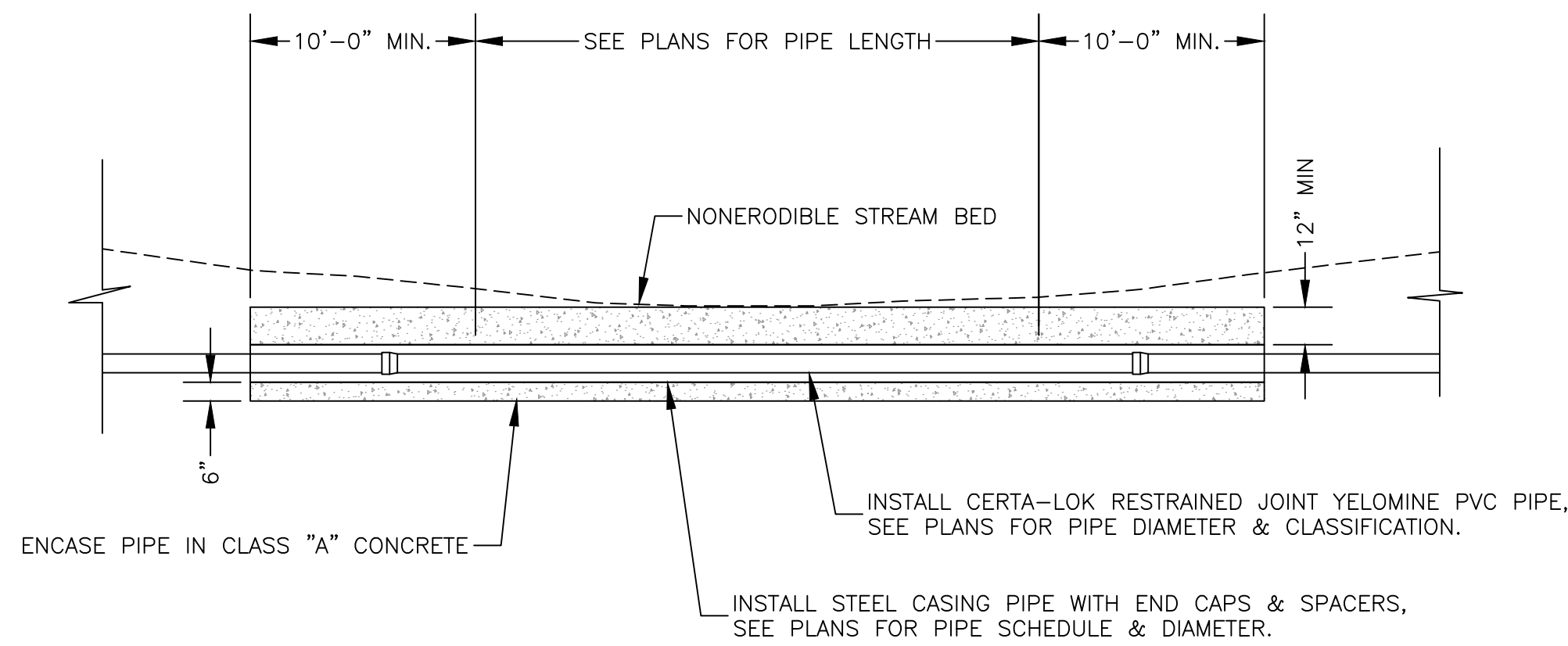
HYDEN-LESLIE COUNTY WATER DISTRICT
CUISIN WATER LINE REPLACEMENT PHASE 1

drawn by: SAM
date: 1218.07
scale: NOT TO SCALE

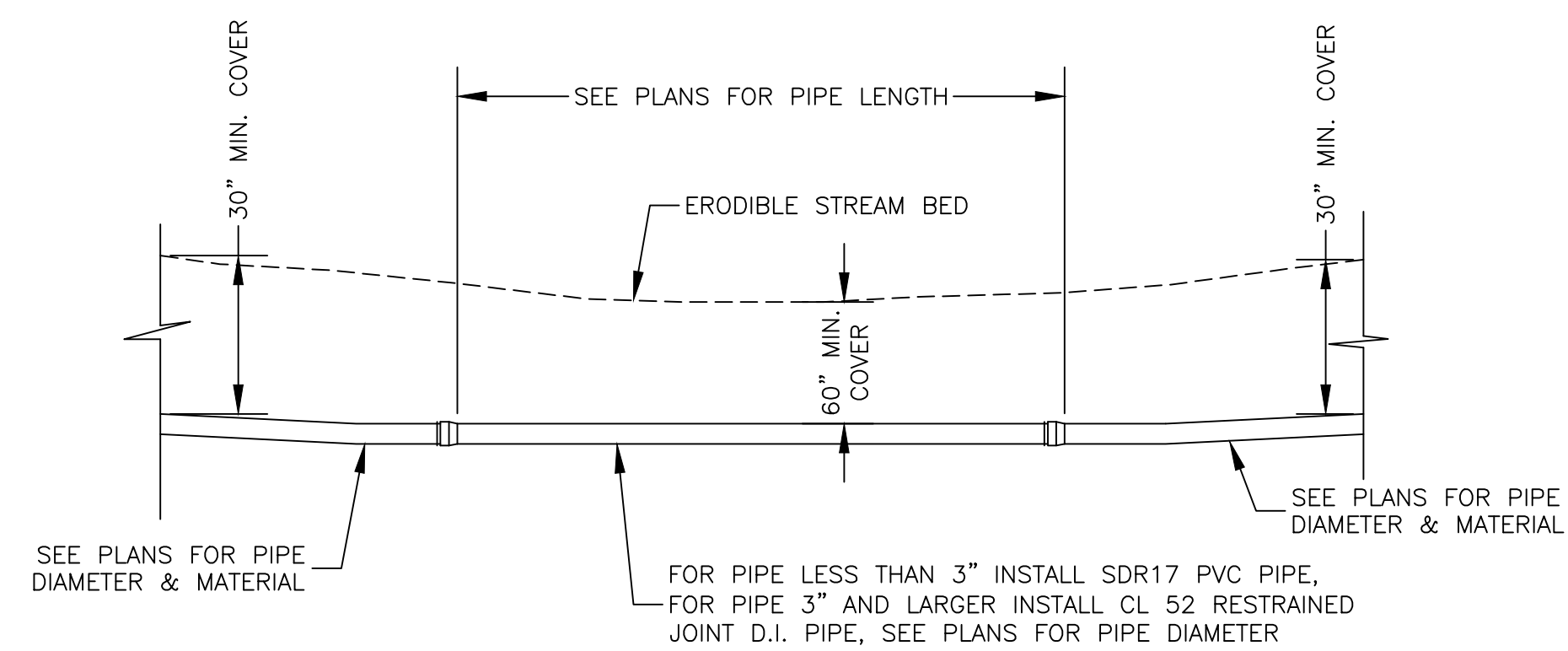
APRIL, 2025



D-2



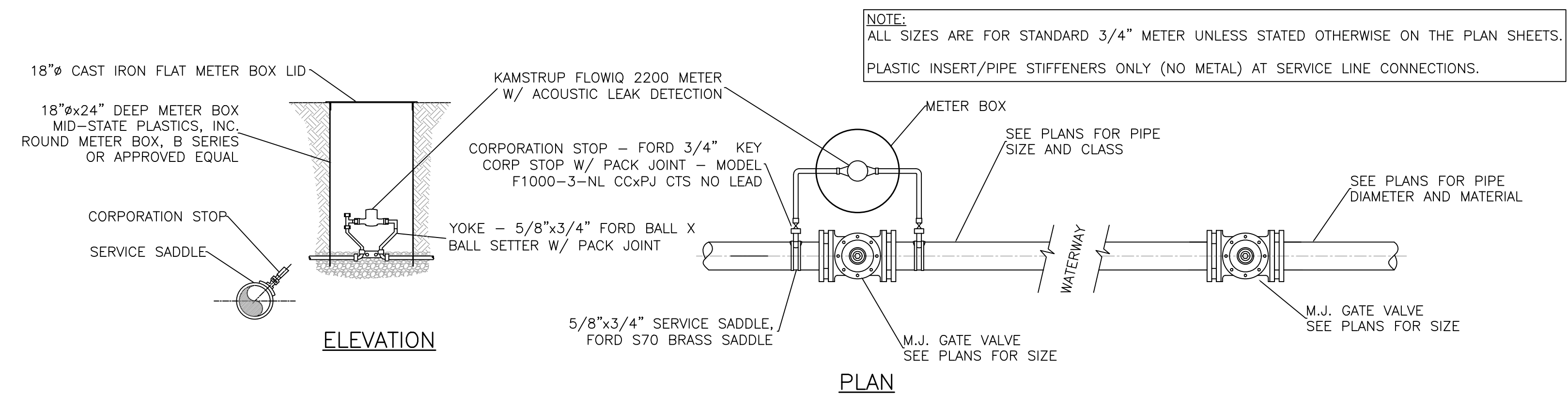
TYPE 1B CREEK CROSSING
(NONERODIBLE STREAM BED)



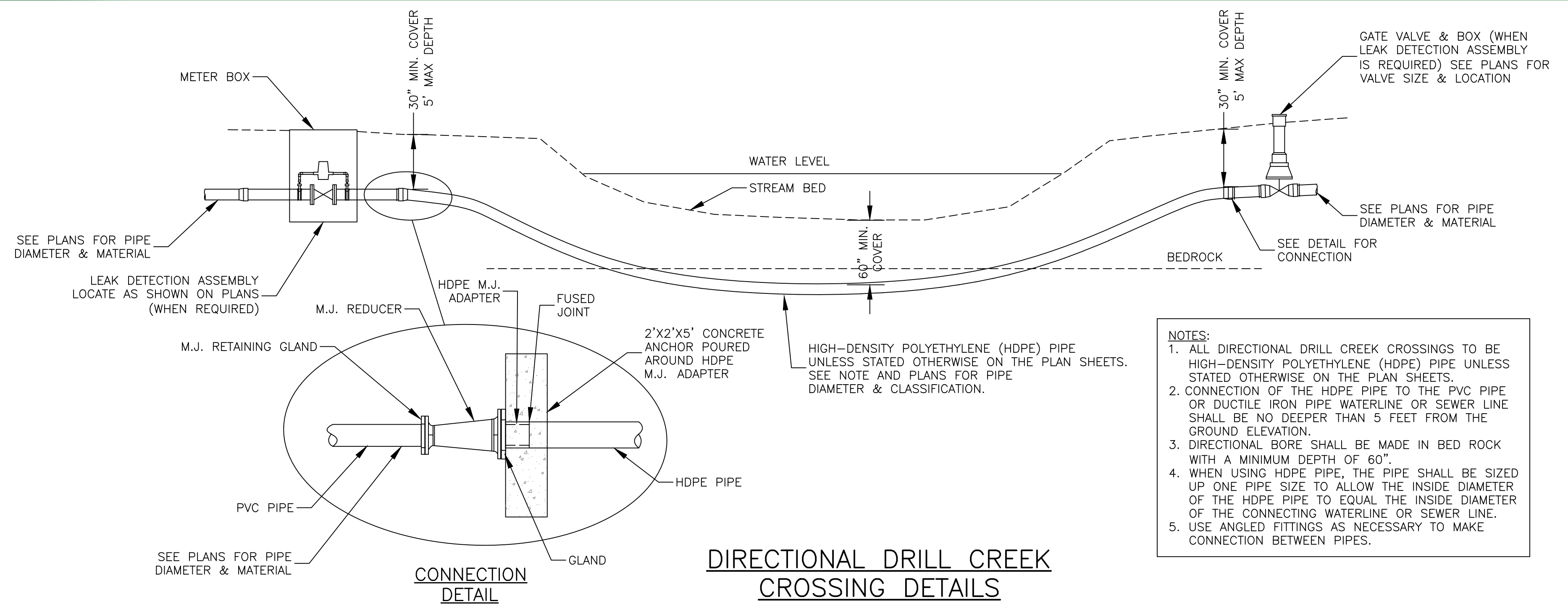
CREEK CROSSING TYPE 1A - FOR PIPE LESS THAN 3" INSTALL SDR17 PVC PIPE, FOR PIPE 3" AND LARGER INSTALL CLASS 52, RESTRAINED JOINT, DUCTILE IRON PIPE PER PLAN LENGTH AND DIAMETER.

TYPE 1A CREEK CROSSING
(ERODIBLE STREAM BED)

CREEK CROSSING DETAILS



LEAK DETECTION ASSEMBLY TYPE A

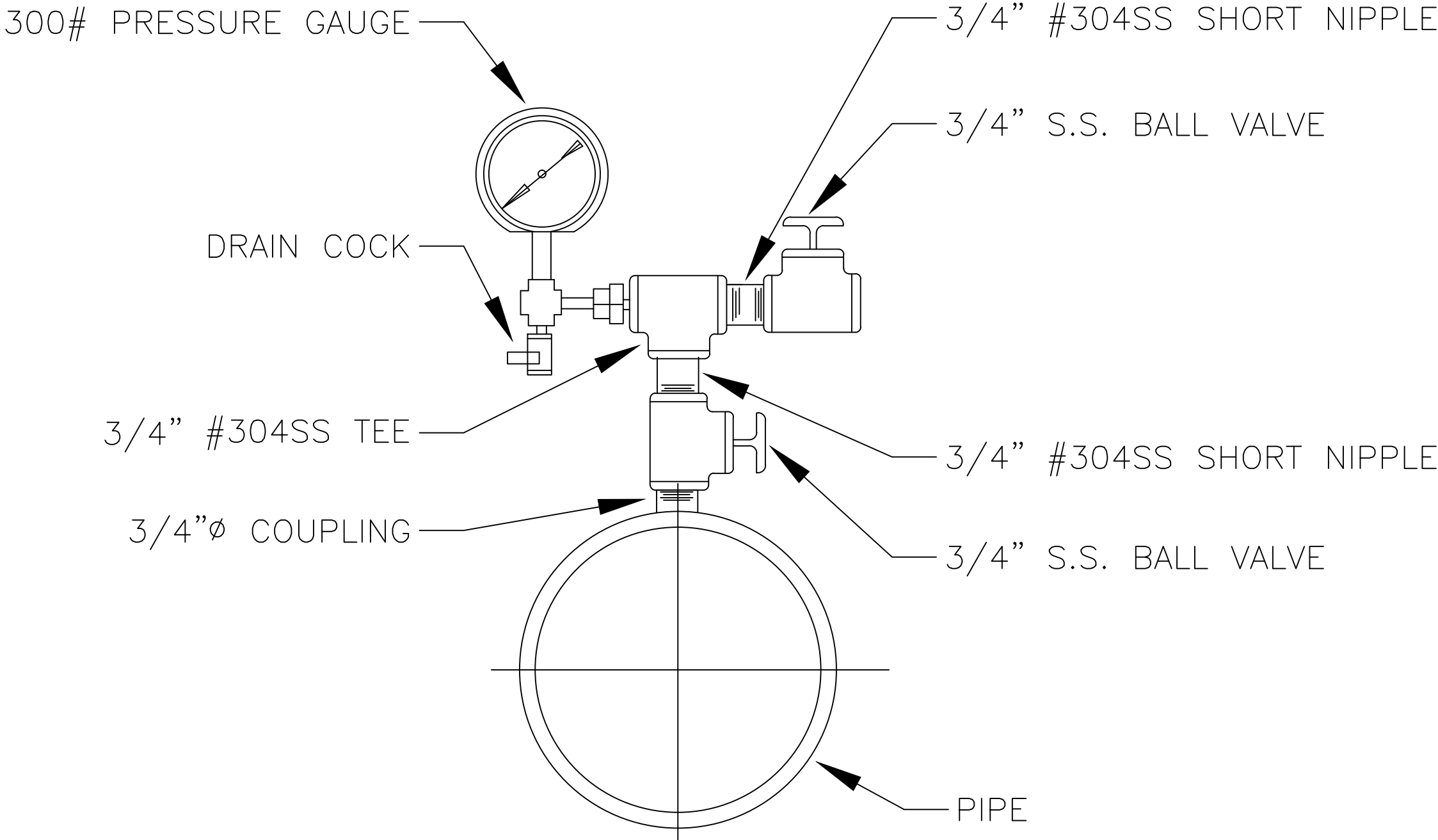


DIRECTIONAL DRILL CREEK CROSSING DETAILS

- NOTES:**
1. ALL DIRECTIONAL DRILL CREEK CROSSINGS TO BE HIGH-DENSITY POLYETHYLENE (HDPE) PIPE UNLESS STATED OTHERWISE ON THE PLAN SHEETS.
 2. CONNECTION OF THE HDPE PIPE TO THE PVC PIPE OR DUCTILE IRON PIPE WATERLINE OR SEWER LINE SHALL BE NO DEEPER THAN 5 FEET FROM THE GROUND ELEVATION.
 3. DIRECTIONAL BORE SHALL BE MADE IN BED ROCK WITH A MINIMUM DEPTH OF 60".
 4. WHEN USING HDPE PIPE, THE PIPE SHALL BE SIZED UP ONE PIPE SIZE TO ALLOW THE INSIDE DIAMETER OF THE HDPE PIPE TO EQUAL THE INSIDE DIAMETER OF THE CONNECTING WATERLINE OR SEWER LINE.
 5. USE ANGLED FITTINGS AS NECESSARY TO MAKE CONNECTION BETWEEN PIPES.

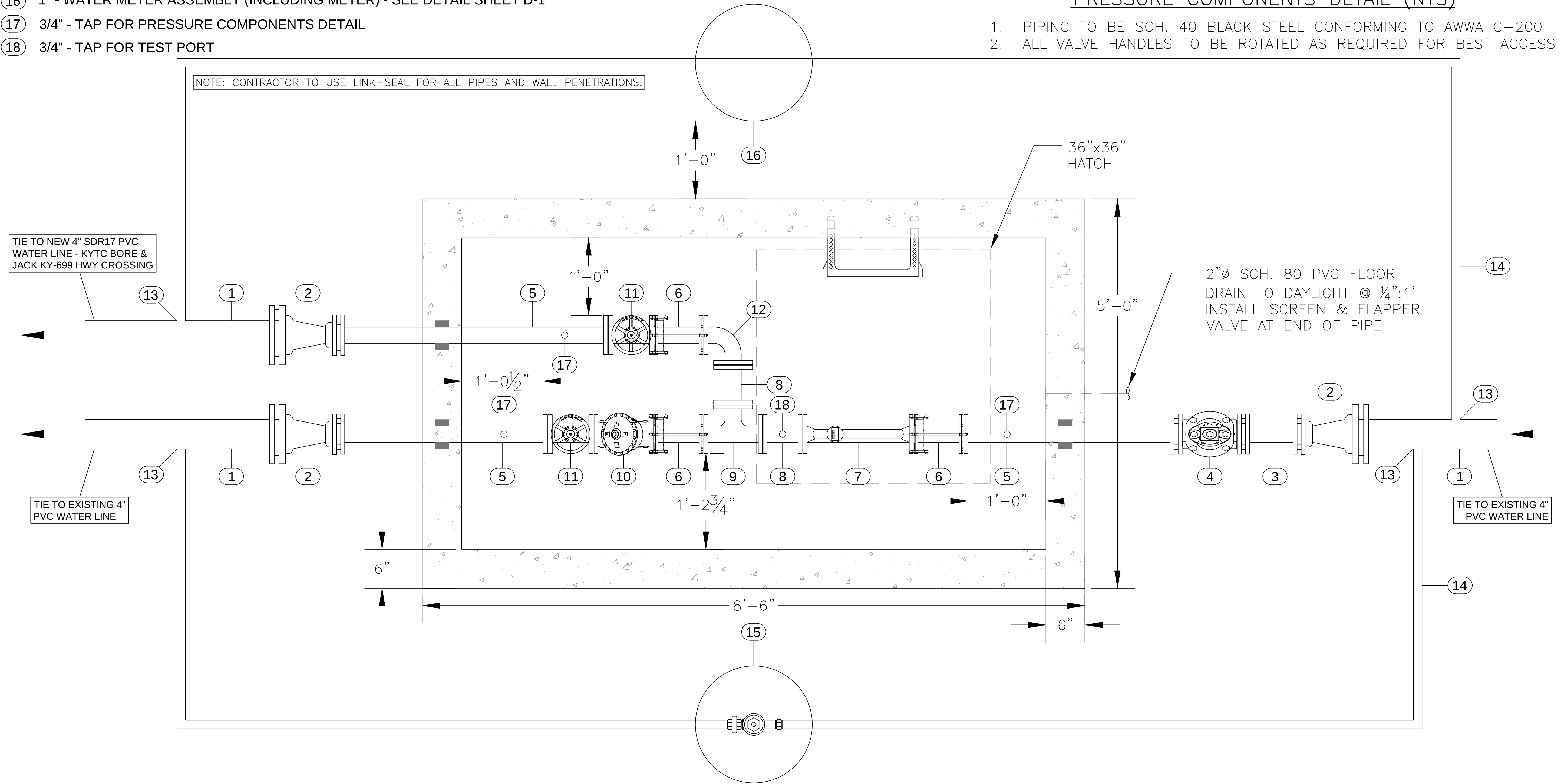
LIST OF PARTS

- 1 4" - PVC - PEXPE - PIPE SDR17
- 2 4" x 2" - D.I. - MJxMJ - REDUCER
- 3 2" - PVC - PEXPE - PIPE SDR17
- 4 2" - D.I. - MJxMJ - GATE VALVE AND BOX - MUELLER MODEL
- 5 2" - D.I. - FLGXPE - PIPE
- 6 2" - D.I. - FLGXFLG - DISMANTLING JOINT
- 7 2" - COMPOSITE - FLGXFLG - FLOW METER - KAMSTRUP FLOWIQ 3200 MODEL
- 8 2" - D.I. - FLGXFLG - PIPE - 6" SPOOL
- 9 2" x 2" - D.I. - FLGXFLG - TEE
- 10 2" - D.I. - FLGXFLG - PRESSURE REDUCING VALVE - BERMAD WW-720 MODEL
- 11 2" - D.I. - FLGXFLG - HAND WHEEL OPERATED GATE VALVE - MUELLER MODEL
- 12 2" - D.I. - FLGXFLG - ELBOW 90°
- 13 1" - CORP STOP AND SERVICE SADDLE - SEE DETAIL SHEET D-1
- 14 1" - POLY - PEXPE - CL 250 PSI PIPE
- 15 1" - WATER METER ASSEMBLY (NO METER) - PRESSURE REDUCING VALVE - ZURN WILKINS 600XL MODEL - SEE DETAIL SHEET D-1
- 16 1" - WATER METER ASSEMBLY (INCLUDING METER) - SEE DETAIL SHEET D-1
- 17 3/4" - TAP FOR PRESSURE COMPONENTS DETAIL
- 18 3/4" - TAP FOR TEST PORT



PRESSURE COMPONENTS DETAIL (NTS)

- 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

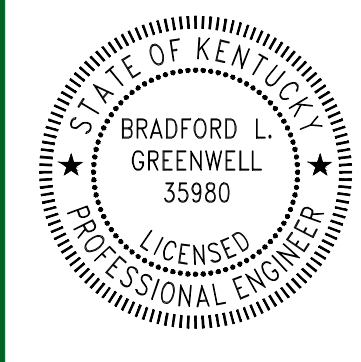


LAST PLOTTED ON: 4/24/2025 BY: MELTON, SETH DRAWING FILE LOCATION: F:\HYDEN-LESLIE COUNTY WATER DISTRICT\1218-07_CUTSHIM.MX D:\35 DESIGN\DWG\35001-PRODUCTION\35-4 & 3-5 MASTER METER & PRV DETAILS.DWG

RESUME:

HYDEN-LESLIE COUNTY WATER DISTRICT
PO BOX 906
356 WENDOVER ROAD
HYDEN, KY 41749

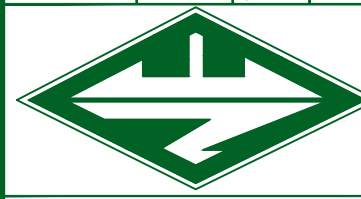
MASTER METER/PRV VAULT DETAILS



nesbitt engineering, inc.
providing proven solutions since 1976

MASTER METER VAULT DETAILS
HYDEN-LESLIE COUNTY WATER DISTRICT
drawn by: BLG
date: APRIL, 2025

scale: 1.5" = 1'



Sheet No.

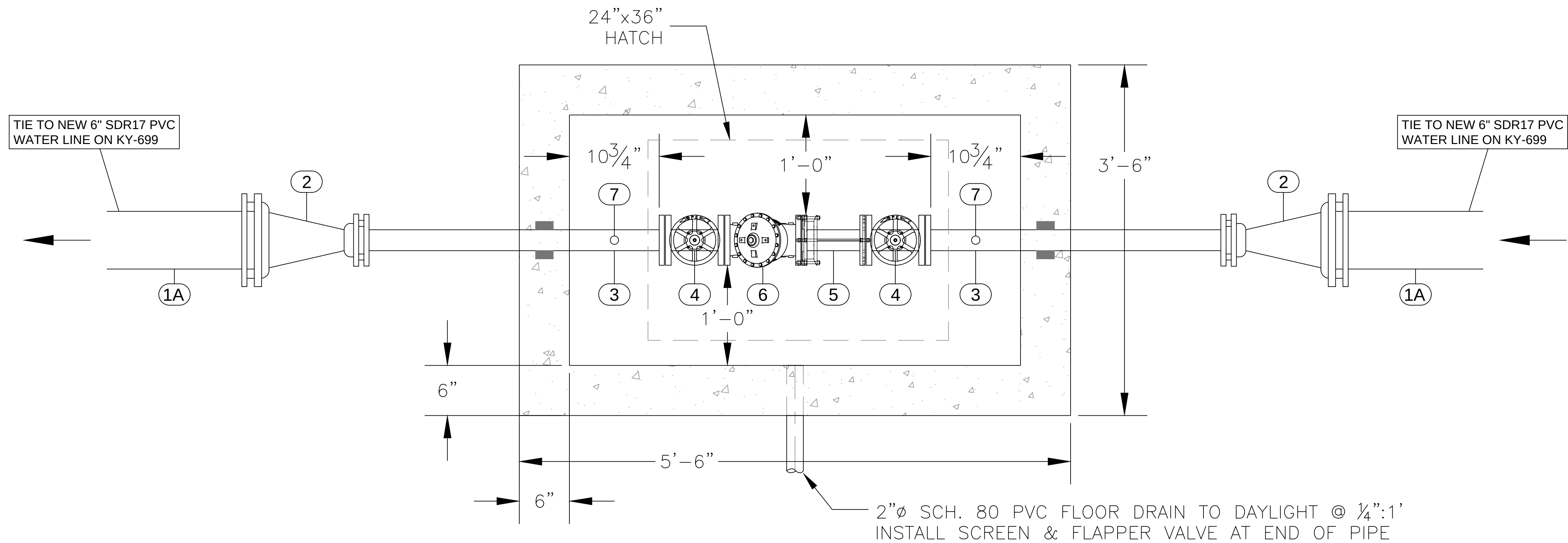
D-4

LAST PLOTTED ON: 4/24/2025 BY: MELTON, SETH DRAWING FILE LOCATION: F:\HYDEN-LESLIE COUNTY WATER DISTRICT\1218-07_CUTSHIM - IN PHASE 1\1-03 DESIGNS\DWG001_PRODUCTION\1-4 & 1-5 MASTER METER & PRV DETAILS.DWG

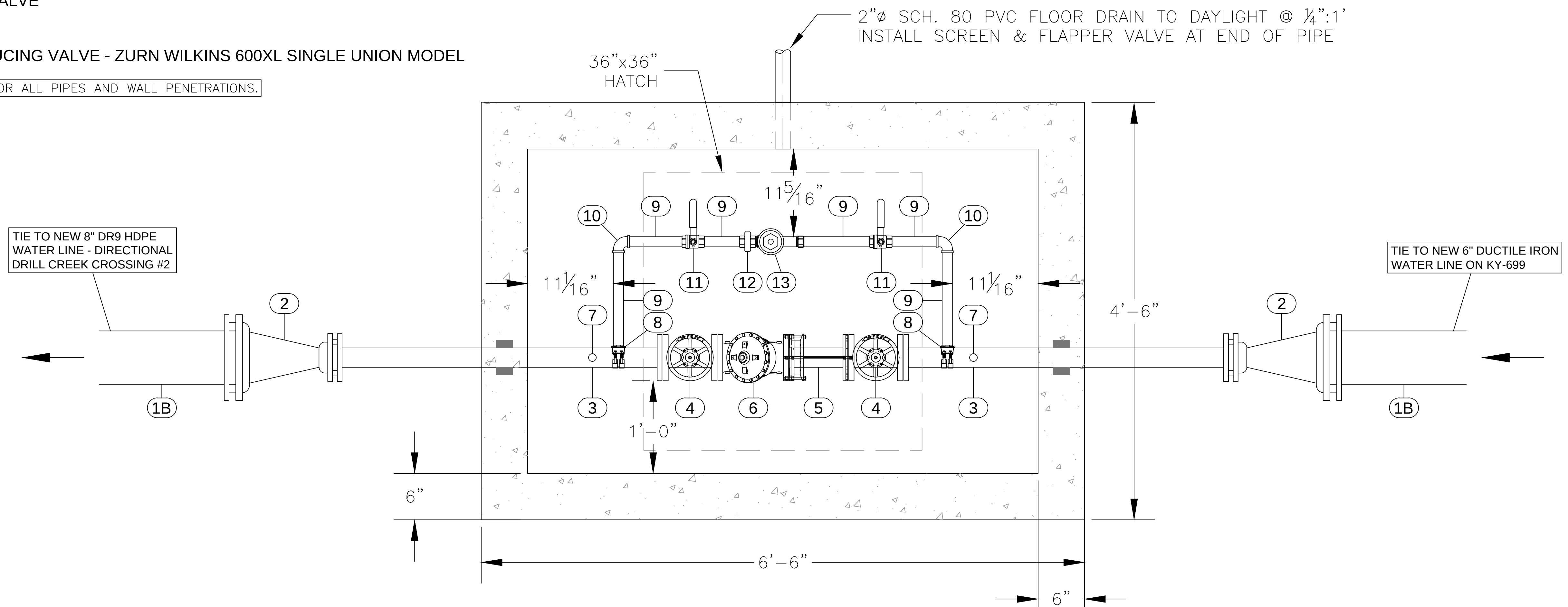
LIST OF PARTS

- ①A 6" - PVC - PEXPE - PIPE SDR17
- ①B 6" - D.I. - PEXPE - PIPE
- ② 6" x 2" - D.I. - MJxMJ - REDUCER
- ③ 2" - D.I. - FLGXPE - PIPE
- ④ 2" - D.I. - FLGXFLG - HAND WHEEL OPERATED GATE VALVE - MUELLER MODEL
- ⑤ 2" - D.I. - FLGXFLG - DISMANTLING JOINT
- ⑥ 2" - D.I. - FLGXFLG - PRESSURE REDUCING VALVE - BERMAD WW-720 MODEL
- ⑦ 3/4" - TAP FOR PRESSURE COMPONENTS DETAIL - SEE DETAIL SHEET D-4
- ⑧ 1" - D.I. - SERVICE SADDLE - HYMAX MODEL
- ⑨ 1" - 316 STAINLESS STEEL - PIPE
- ⑩ 1" - 316 STAINLESS STEEL - ELBOW 90°
- ⑪ 1" - 316 STAINLESS STEEL - BALL VALVE
- ⑫ 1" - 316 STAINLESS STEEL - UNION
- ⑬ 1" - COMPOSITE - PRESSURE REDUCING VALVE - ZURN WILKINS 600XL SINGLE UNION MODEL

NOTE: CONTRACTOR TO USE LINK-SEAL FOR ALL PIPES AND WALL PENETRATIONS.



HAYES LEWIS PRV VAULT

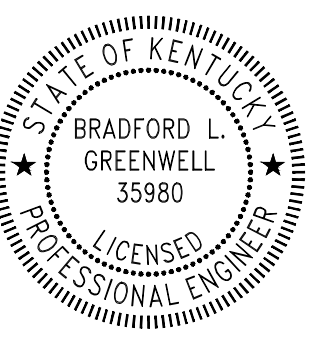


YEADDISS PRV VAULT

RESUME:

HYDEN-LESLIE COUNTY WATER DISTRICT
PO BOX 906
356 WENDOVER ROAD
HYDEN, KY 41749

PRV VAULT DETAILS

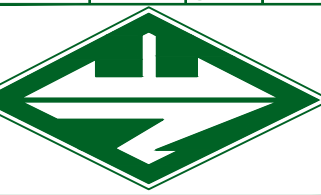


nesbitt engineering, inc.
providing proven solutions since 1976

MASTER METER VAULT DETAILS
HYDEN-LESLIE COUNTY WATER DISTRICT

drawn by: BLG job no.: 1218-07 scale: 1.5" = 1'

date: APRIL, 2025



SHEET NO.

D-5