

# 2019 WATER SYSTEM IMPROVEMENTS

## FOR THE NORTH MERCER WATER DISTRICT CONTRACT 2C

MAY 2021

### BOARD MEMBERS

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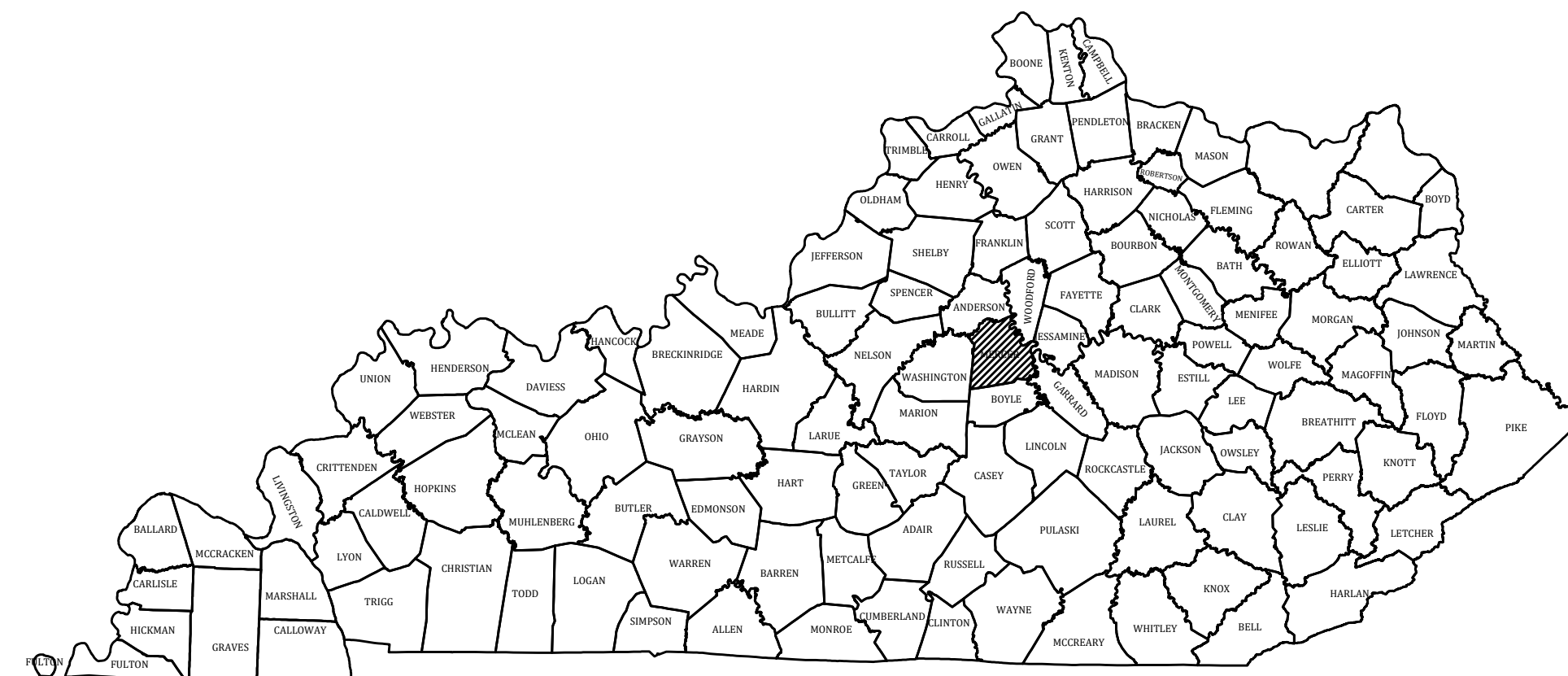
222 East Main Street, Ste. 1 • Georgetown, KY 40324

### RECORD DRAWINGS

TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF THIS SET OF RECORD DRAWINGS SHOWS THE REPORTED LOCATION OF THE WORK AND SIGNIFICANT CHANGES MADE DURING THE CONSTRUCTION PROCESS. THESE RECORD DOCUMENTS ARE BASED ON UNVERIFIED INFORMATION PROVIDED BY OTHER PARTIES WHICH WILL BE ASSUMED RELIABLE. THE DESIGN PROFESSIONAL CANNOT AND DOES NOT WARRANT THEIR ACCURACY.

BY: BLUEGRASS ENGINEERING, PLLC

DATE: 05/2022



PROJECT NO. 18029

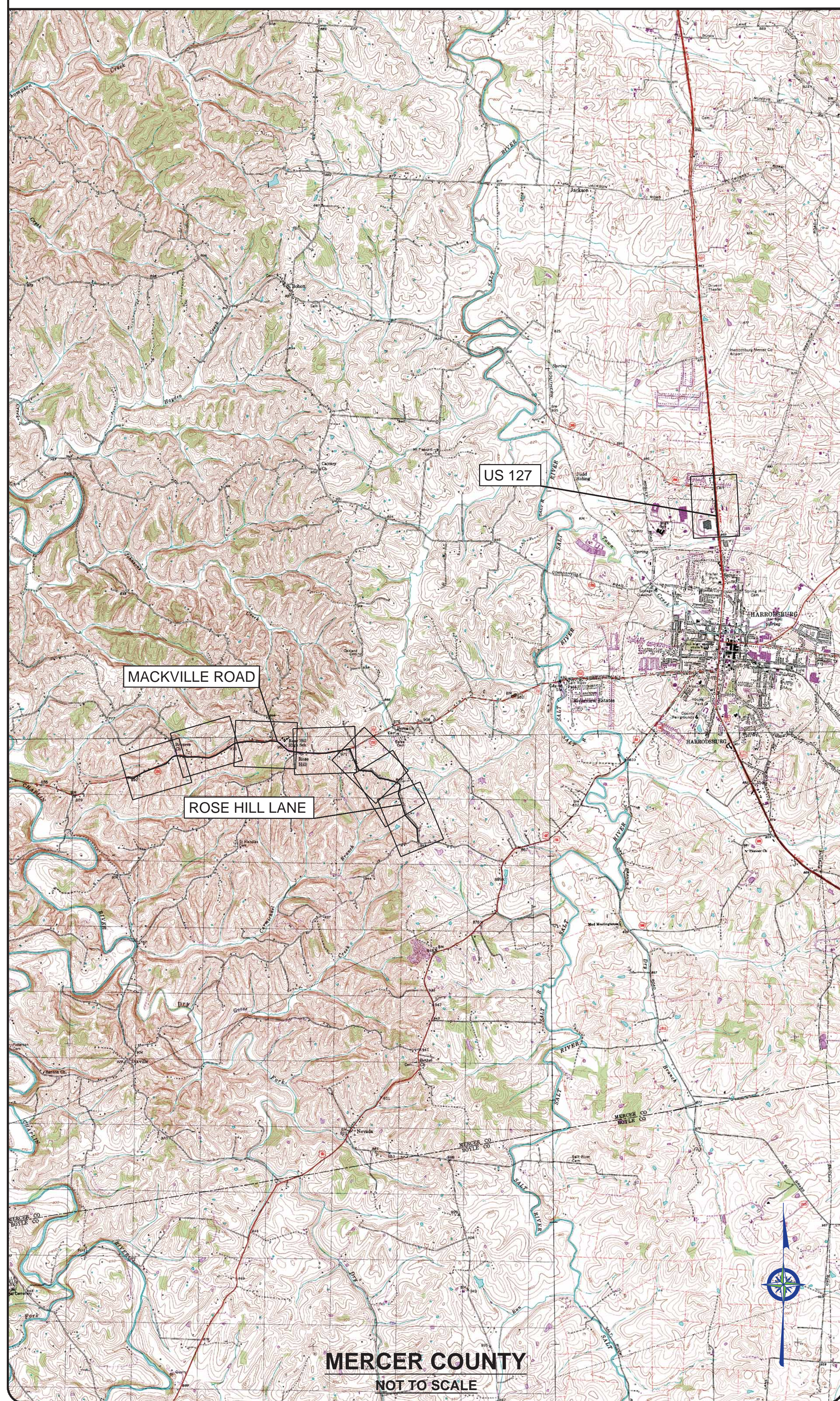


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B:\PROJECTS\North Mercer Water District\18029 - 2019 Water System Improvements\Drawings\Record Drawings\Contract 2C18029-02-01-2C.dwg BE 201/23

**PROJECT MAP**



**GENERAL NOTES**

- CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES AND THE ENGINEER TWO WORKING DAYS (MINIMUM) BEFORE BEGINNING CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF TRAFFIC IN ACCORDANCE WITH CITY, COUNTY AND STATE REQUIREMENTS.
- THE CONTRACTOR SHALL MAINTAIN A CURRENT SET OF CONSTRUCTION PLANS ON THE JOB SITE DURING ALL PHASES OF CONSTRUCTION.
- EXISTING UTILITIES, ESPECIALLY GAS LINES AND OIL LINES, MAY BE CATHODICALLY PROTECTED. THEREFORE, DUCTILE IRON PIPE, FITTINGS, GATE VALVES, AND/OR BOXES LAID WITHIN 100' OF LINES WITH CATHODIC PROTECTION SHALL BE WRAPPED IN POLYETHYLENE ENCASUREMENT. MATERIALS AND INSTALLATION SHALL MEET THE REQUIREMENTS OF AWWA'S LATEST REVISION.
- ALL CONSTRUCTION AND INSTALLATION OF MATERIALS BEING USED SHALL BE IN CONFORMANCE WITH THE PLANS AND SPECIFICATIONS. SUBSTITUTIONS AND DEVIATION SHALL BE PERMITTED ONLY WHEN WRITTEN APPROVAL HAS BEEN ISSUED BY THE ENGINEER.
- SHOP DRAWINGS OF ALL MATERIALS BEING USED SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
- EXISTING UTILITIES HAVE BEEN SHOWN IN THEIR APPROXIMATE LOCATION. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH A REPRESENTATIVE WHEN WORKING NEAR EXISTING UTILITIES.
- THE CONTRACTOR SHALL PROTECT ALL UTILITIES AND OTHER IMPROVEMENTS SHOWN ON THESE PLANS AND ALL OTHER UTILITIES AND OTHER IMPROVEMENTS NOT SHOWN. THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR REPAIRS OF UTILITIES AND OTHER IMPROVEMENTS DAMAGED DURING CONSTRUCTION.
- UNLESS OTHERWISE NOTED, A SEPARATE BID ITEM HAS NOT BEEN ESTABLISHED FOR FITTINGS. THE FITTINGS INCLUDED BUT NOT LIMITED TO ARE: TEES, BENDS, PLUGS, REDUCERS, CROSSES, COUPLINGS, ETC. CONTRACTORS SHALL INCLUDE THE COST OF THESE ITEMS IN THE BID PRICE FOR THE PIPE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE TEMPORARY REMOVAL/RELOCATION OF TRAILERS, BUILDINGS, FENCES, TREES, SHRUBS, ETC. AND REPLACEMENT OF SAID ITEMS AFTER CONSTRUCTION ACTIVITIES.
- CONTRACTOR IS TO COORDINATE WITH THE PROPERTY OWNERS AS TO WHETHER OR NOT TEMPORARY FENCING IS REQUIRED AND CONSTRUCT IF NECESSARY.
- ALL PIPING SHALL HAVE 30" MINIMUM COVER.
- WHERE UNSTABLE MATERIAL IS ENCOUNTERED OR WHERE THE DEPTH OF EXCAVATION IN EARTH EXCEEDS FIVE (5) FEET, THE SIDES OF THE TRENCH OR EXCAVATION SHALL BE SUPPORTED BY SUBSTANTIAL SHEETING, BRACING, SHORING OR THE TRENCH SIDES SLOPED. SLOPING THE SIDES OF THE DITCH WILL NOT NOT BE PERMITTED IN STREETS, ROADS, NARROW RIGHTS-OF-WAY OR OTHER CONSTRICTED AREAS UNLESS OTHERWISE SPECIFIED. THE STANDARDS OF THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT AND THE KENTUCKY LABOR CABINET SHALL BE FOLLOWED.
- ALL EXCAVATION IS UNCLASSIFIED. COMPENSATION FOR ALL EXCAVATION SHALL BE INCLUDED IN LUMP SUM BID.
- REGRADE OF SITE SHALL BE SUCH THAT DRAINAGE IS AWAY FROM ALL STRUCTURES.
- BACKFILL AROUND ALL STRUCTURES SHALL BE SUFFICIENTLY COMPACTED TO PRECLUDE SETTLEMENT AND PONDING OF WATER AROUND STRUCTURES AND GRADED TO DIVERT RUNOFF AWAY FROM THE STRUCTURES.
- DIMENSIONS, DETAILS AND REINFORCEMENT MAY VARY WITH MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR SHALL OBTAIN AND MAINTAIN ON SITE, APPROVED SHOP DRAWINGS PRIOR TO BEGINNING CONSTRUCTION.
- ALL VALVES & HYDRANTS SHALL BE LOCATED AT THE BACKSIDE OF THE DITCHLINE.
- FINAL LOCATION OF SERVICES, VALVES, & HYDRANT ORIENTATION ARE TO BE FIELD LOCATED DURING CONSTRUCTION & APPROVED BY THE ENGINEER.
- AT THE CONTRACTORS OPTION, CLASS 350 DUCTILE IRON PIPE MAY BE SUBSTITUTED FOR ANY PIPE PARTICULARLY SPECIFIED, BUT AT NO ADDITIONAL COST TO THE OWNER.
- NO PAY ITEM FOR EXTRA TRENCH DEPTH HAS BEEN SET UP. CONTRACTOR SHALL INCLUDE THE COST OF THE ADDITIONAL DEPTH IN HIS BID PRICE.
- ROCK SOUNDINGS WERE NOT PERFORMED BY THE ENGINEER. THE CONTRACTOR SHALL TAKE APPROPRIATE ACTION TO DETERMINE SUBSURFACE CONDITIONS.
- CONTRACTOR TO DIG/EXPOSE EXISTING WATER MAIN FAR ENOUGH AHEAD OF NEW WATER MAIN CONSTRUCTION TO AVOID DAMAGE TO EXISTING WATER MAIN AND/OR INTERRUPTION OF EXISTING CUSTOMER SERVICES.
- ALL NEW SERVICE LINE FROM THE NEW MAIN TO THE SETTERS SHALL BE 3/4" ENDOT ENDOPURE TUBING UNLESS SHOWN DIFFERENTLY ON THE PLANS
- THE MAXIMUM ALLOWABLE LENGTH OF SERVICE LINE FROM THE WATER MAIN TO THE CUSTOMER'S METER SERVICE SHALL BE AS FOLLOWS:
 

SERVICE LINE DIAMETER	MAXIMUM LENGTH
3/4 INCH	125 FEET
1 INCH	150 FEET
1-1/2 INCH	200 FEET
2 INCH	250 FEET
- CONNECTIONS TO EXISTING DISTRIBUTION SYSTEM SHALL BE MADE AS FOLLOWS:
  - CONNECT TO EXISTING (SIZE) W.M. (WET TAP) - CONTRACTOR SHALL PROVIDE, FURNISH AND INSTALL ALL FITTINGS, VALVES AND APPURTENANCES TO CONNECT THE PROPOSED WATER MAIN TO THE EXISTING WATER MAIN UNDER PRESSURE.
  - CONNECT TO EXISTING (SIZE) W.M. - CONTRACTOR SHALL PROVIDE, FURNISH AND INSTALL ALL FITTINGS AND APPURTENANCES TO CONNECT THE PROPOSED WATER MAIN TO THE EXISTING WATER MAIN. VALVES ARE A SEPARATE PAY ITEM.
- NO BLASTING WILL BE PERMITTED ON THIS PROJECT
- GRIP RINGS SHALL BE INSTALLED ON ALL FITTINGS
- ALL PVC CASING SHALL BE MINIMUM OF 4" LARGER THAN CARRIER PIPE. STEEL CASING MINIMUM 6" LARGER.
- ALL EXISTING METERS SHALL BE RECONNECTED TO NEW WATER MAINS W/NEW 3/4" PE SERVICE LINE.
- NMR - (NEW METER RECONNECT) MARKED ON PLANS WILL NOTE THOSE MATERIALS THAT WILL BE REPLACED WITH NEW METER ASSEMBLY'S (SETTER, BOX, LID, ETC) AND RECONNECTED TO EXISTING SERVICE AND NEW WATER MAIN.
- ANY MAILBOX THAT IS REMOVED FOR THE INSTALLATION OF THE WATER MAIN MUST BE RE-INSTALLED ONCE THE WATER MAIN HAS BEEN INSTALLED.
- ALL CONNECTIONS BETWEEN THE PVC AND HDPE MUST BE SEALED IN PLASTIC AND CONCRETED.
- BLUEGRASS CELLULAR REQUIRES NO MECHANICAL DIGGING WITHIN 18" OF EXISTING CABLE.
- PORTABLE TOILET REQUIRED.
- NEW METER BOXES SHALL BE 18" IN DIAMETER WITH FLAT METAL LID.
- EXISTING EASEMENT IS 7.5' EACH SIDE OF EXISTING WATER MAIN

**GENERAL NOTES**

- NEW LINE AND EXISTING LINES MUST REMAIN IN SERVICE UNTIL ALL METERS ASSEMBLED HAVE BEEN REPLACED AND RECONNECTED TO THE NEW LINE
  - NO METERS CAN BE RECONNECTED TO THE NEW WATER MAIN UNTIL TESTING, STERILIZATION AND SAMPLING HAS BEEN SUCCESSFULLY COMPLETED
  - COPIES OF ALL BAC-T RESULTS MUST BE PROVIDED TO THE OWNER PRIOR TO RECONNECTS OF ANY METER.
  - A NO. 12 AWG INSULATED COPPER LOCATOR WIRE SHALL BE TAPED TO THE TOP OF THE WATER MAIN PIPE. THE INSULATION SHALL BE BLUE FOR WATER. THE WIRE SHALL BE LOOPED OUTSIDE ALL VALVE BOXES W/ ENOUGH SLACK TO ALLOW ACCESS TO THE LOOPS.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY PLUMBING PERMITS NECESSARY TO RELOCATE OR RECONNECT ANY CUSTOMERS METER SERVICE OR SERVICE LINE. THE CONTRACTOR SHALL OBTAIN ALL PERMITS, PAY ALL FEES AND EMPLOY THE NECESSARY LICENSED PLUMBER.
- FINAL CLEANUP AND RESTORATION**
- UNLESS SPECIFICALLY APPROVED BY THE OWNER AND ENGINEER, CLEANUP OF DISTURBED AREAS SHALL BE KEPT CURRENT WITH CONSTRUCTION AND RESTORATION EFFORTS BY THE CONTRACTOR INITIATED NO LONGER THAN SEVEN (7) DAYS AFTER THE TRENCH EXCAVATION WORK HAS STARTED. ALL EXCAVATED MATERIAL NOT REQUIRED FOR BACKFILLING OF THE TRENCH AND ANY LARGE ROCKS, STONES OR DEBRIS SHALL BE REMOVED FROM THE SITE, AND SHALL NOT BE A BURDEN TO THE PROPERTY OWNER(S) AND/OR ADJACENT PROPERTIES. THE CONTRACTOR MAY WINDROW OR TRACK-IN THE EXCAVATED MATERIAL OVER THE TRENCH PRIOR TO FINAL CLEANUP TO ALLOW FOR AND TO ASSIST IN THE INITIAL SETTLEMENT OF THE TRENCH. ALL DISTURBED AREAS MUST BE SEEDED AT LEAST WITH A TEMPORARY SEED MIX IF FOR SOME REASON THE AREA CANNOT BE PERMANENTLY SEEDED WITHIN TWO (2) WEEKS.

**CONSTRUCTION IN KTC RIGHT-OF-WAY**

- ALL EFFECTED KYTC DITCHLINES SHALL REMAIN FREE OF EXCESS SILT OR EROSION AND CONSTRUCTED TO THE NORMAL TYPICAL SECTION OF THE ROADWAY WITH A MINIMUM DEPTH OF 18 INCHES FROM THE SHOULDER BREAK POINT.
- ALL NECESSARY STEPS SHALL BE TAKEN TO PREVENT EROSION OR SILTATION OF THE PUBLIC RIGHT-OF-WAY, ADJOINING PROPERTY AND WATERWAYS.
- ALL VALVES TO BE FLUSH W/ EXISTING GRADE.
- ALL WATER LINE LOCATED WITHIN STATE HIGHWAY R.O.W. SHALL BE CONSTRUCTED OUT AND AROUND THE END OF ALL EXISTING CULVERTS AND HEADWALLS.
- UNDERGROUND UTILITIES INSTALLED INSIDE STATE RIGHT-OF-WAY SHALL BE LOCATED WITHIN 3-5 FEET FROM THE EDGE OF THE RIGHT-OF-WAY UNLESS OTHERWISE SHOWN ON THE PLANS.
- UNDERGROUND UTILITIES SHOWN MORE THAN 5 FEET FROM THE EDGE OF THE RIGHT-OF-WAY SHALL BE INSTALLED WITH A MINIMUM DEPTH OF COVER OF 42 INCHES WITH PRIOR APPROVAL ON A CASE BY CASE BASIS.
- UNDERGROUND UTILITIES CROSSING ANY ENTRANCE OR CROSSROAD PAVED WITH CONCRETE OR ASPHALT SURFACE INSIDE STATE RIGHT-OF-WAY SHALL BE INSTALLED BY BORING UNLESS WRITTEN PERMISSION TO OPEN CUT IS OBTAINED FROM THE PROPERTY OWNER AND APPROVED BY THE KYTC DISTRICT PERMITS ENGINEER.
- UNDERGROUND UTILITIES SHALL NOT BE INSTALLED IN EMBANKMENT FILLS OR BETWEEN EDGE OF PAVEMENT AND DITCHLINE UNLESS SPECIFICALLY NOTED ON PERMITTED PLANS.
- FIRE HYDRANTS OR UTILITY SERVICE BOXES SHALL BE LOCATED WITHIN 2 FEET FROM THE EDGE OF RIGHT-OF-WAY LINE, OR OFF RIGHT-OF-WAY.

**DRAWING INDEX**

SHT. NO.	DESCRIPTION:
--	COVER
01	PROJECT MAP, EXISTING UTILITIES, LEGEND AND DRAWING INDEX
02	AERIAL PLAN - US 127
03 - 06	AERIAL PLAN - MACKVILLE ROAD
07 - 09	AERIAL PLAN - ROSE HILL LANE
10 - 12	STANDARD DETAILS - WATER MAIN

**LEGEND**

- NEW WATER MAIN
- EXISTING WATER MAIN
- EXISTING SANITARY SEWER
- EXISTING GAS MAIN
- EXISTING FORCE MAIN
- NEW STEEL CASING
- EXISTING CULVERT
- NEW FLUSHING HYDRANT
- EXISTING FLUSHING HYDRANT
- W.M. EXISTING WATER METER
- NEW GATE VALVE & BOX
- EXISTING MANHOLE

**EXISTING UTILITIES**

**Kentucky 811**  
Call before you dig

**NOTE:**  
IN ACCORDANCE WITH KENTUCKY STATE LAW, ANY ACTIVITY THAT RESULTS IN MOVEMENT, PLACEMENT, BORING, PROBING OR DIGGING IN OR ON THE GROUND SHALL CONTACT THE ONE CALL CENTER FOR UNDERGROUND UTILITY LOCATIONS.

**WATER**  
NORTH MERCER WATER DISTRICT  
PO BOX 79  
SALVISA, KY 40372  
MISCHELL LEE, MANAGER  
(859) 865-2292 OFFICE

**GAS**

**ELECTRIC**

**TELEPHONE & CABLE**  
FIBER OPTIC - BLUEGRASS NETWORK  
(270) 746-1600

**RECORD DRAWINGS**

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BY: BLUEGRASS ENGINEERING, PLLC DATE: 05/2022

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	5/2020	REVISIONS MADE PER KDOV COMMENTS	WCM

2019 WATER SYSTEM IMPROVEMENTS  
CONTRACT 2C

PROJECT MAP, EXISTING UTILITIES,  
LEGEND & DRAWING INDEX

**BLUEGRASS ENGINEERING, PLLC**

222 East Main Street, Ste. 1 • Georgetown, KY 40324

PROJECT #:	18029
DATE:	OCTOBER 2019
PROJECT MGR:	LRS
DRAWN BY:	WCM
CHECKED BY:	PBR



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**NOTE:**

1. OPEN CUT ALL PAVED AREAS
2. NEW W.M. TO BE INSTALLED ON STATE RW
3. CAUTION BURIED GAS MAIN
4. STEEL PLATES REQUIRED TO PROVIDE ACCESS TO BUSINESSES AT ALL TIMES OR WORK AFTER BUSINESS HOURS

**NOTE:** 1 1/4" CASING SHALL BE USED FOR ALL OFFSIDE METER RECONNECT

RECONNECT ALL EXISTING METERS TO NEW WATER MAIN W/ 3/4" CL.250 SERVICE LINE. ALL SERVICE LINE IS TO BE REPLACED BETWEEN EXISTING METER & NEW WATER MAIN

NEW METER (NM) - INSTALL NEW METER ASSEMBLY AND RECONNECT TO EXISTING SERVICE.

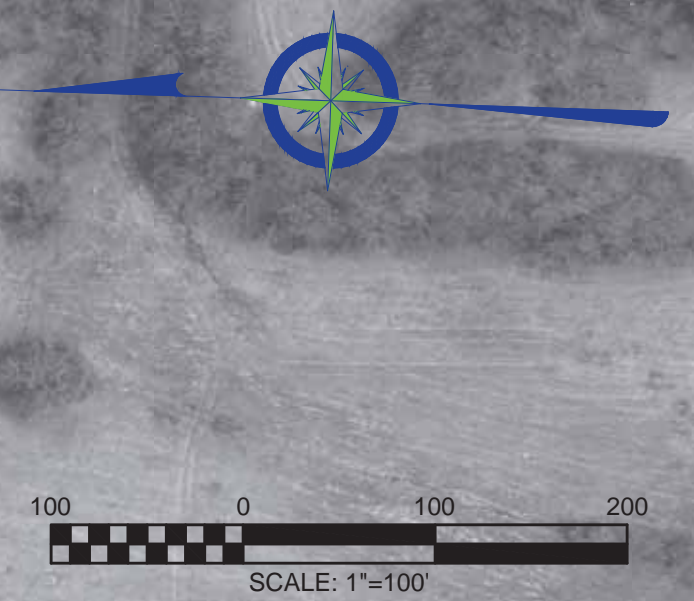
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ALL DRIVEWAY & COUNTY ROAD BORES SHALL HAVE PVC CASING (6" LARGER THAN CARRIER PIPE)

ANY MAILBOXES REMOVED FOR PIPE INSTALLATION MUST BE RESET IMMEDIATELY AFTERWARDS

EXISTING PULL UP BOXES SHALL BE REPLACED WITH NEW METER ASSEMBLY

EXISTING METERS SHALL BE INSTALLED IN NEW SETTER WHERE APPLICABLE



NO.	DATE	REVISIONS	BY
	5/2020	REVISIONS MADE PER KDOV COMMENTS	WCM

**2019 WATER SYSTEM IMPROVEMENTS  
CONTRACT 2C**

US 127



PROJECT #: 18029  
DATE: OCTOBER 2019  
PROJECT MGR: LRS  
DRAWN BY: WCM  
CHECKED BY: PBR



02

RECORD DRAWINGS



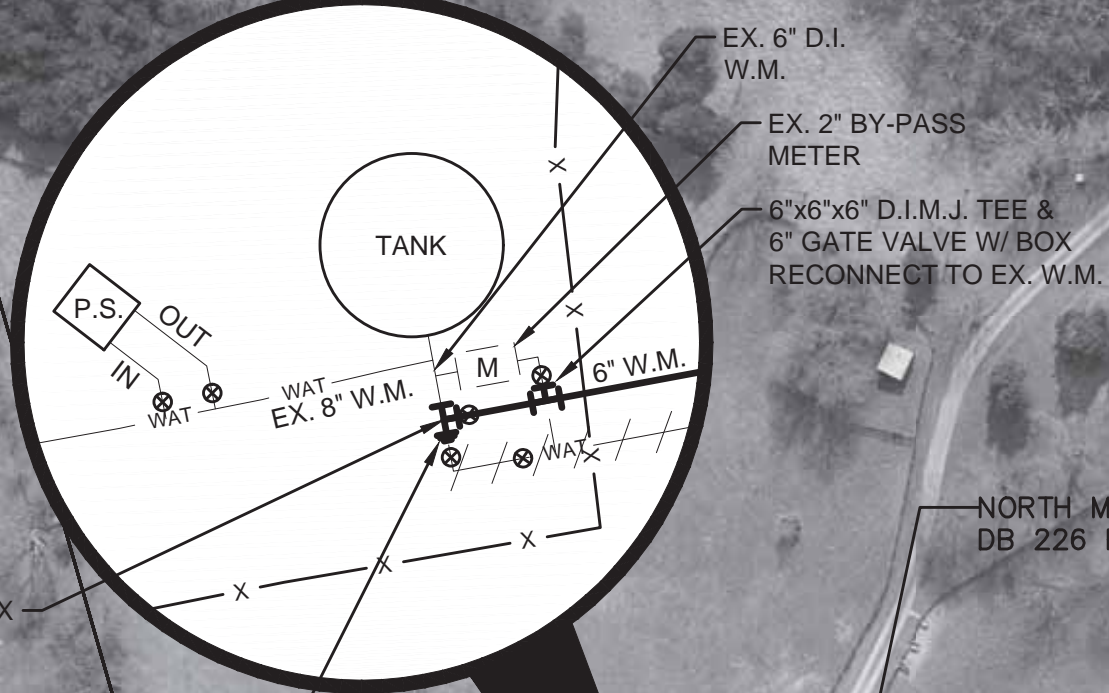
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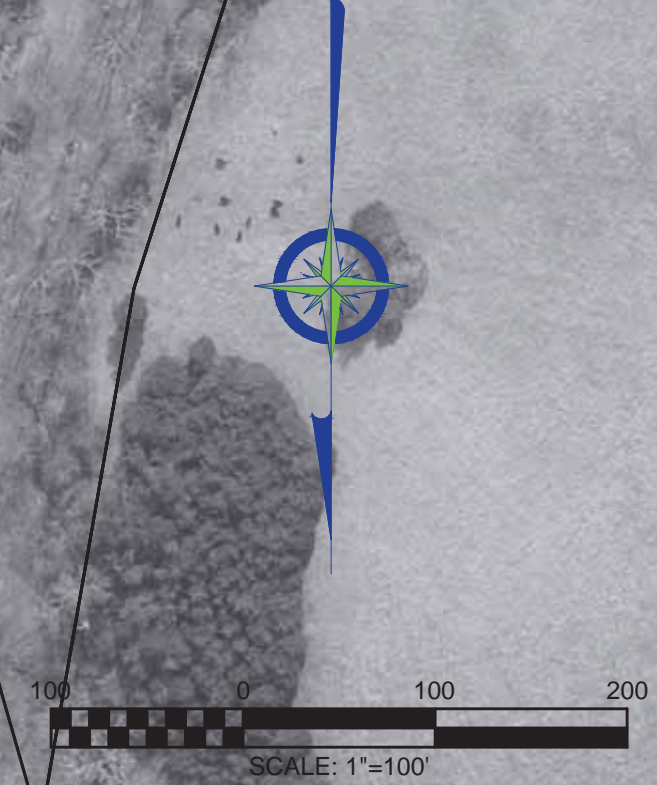
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2019 WATER SYSTEM IMPROVEMENTS  
CONTRACT 2C  
MACKVILLE ROAD



PROJECT #: 18029  
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PARCEL #	NAME	MAILING ADDRESS	CITY	STA TE	ZIP	DEED BOOK / PAGE NUMBER
1	LEWIS BUFORD & WHITESIDE KENNETH	318 OLD LEWIS RD	HARRODS BURG	KY	40330	175/131
2	MERCER CO FISCAL COURT	MAIN ST.	HARRODS BURG	KY	40330	174/219
3	MERCER CO FISCAL COURT	MAIN ST.	HARRODS BURG	KY	40330	174/219
4	RALPH C. RILEY	345 OLD LEWIS RD	HARRODS BURG	KY	40330	347/202
5	CARL & GENEVA SUE COLE	368 OLD LEWIS RD	HARRODS BURG	KY	40330	337/454

NO.	DATE	REVISIONS	BY
	5/2020	REVISIONS MADE PER KDOV COMMENTS	WCM

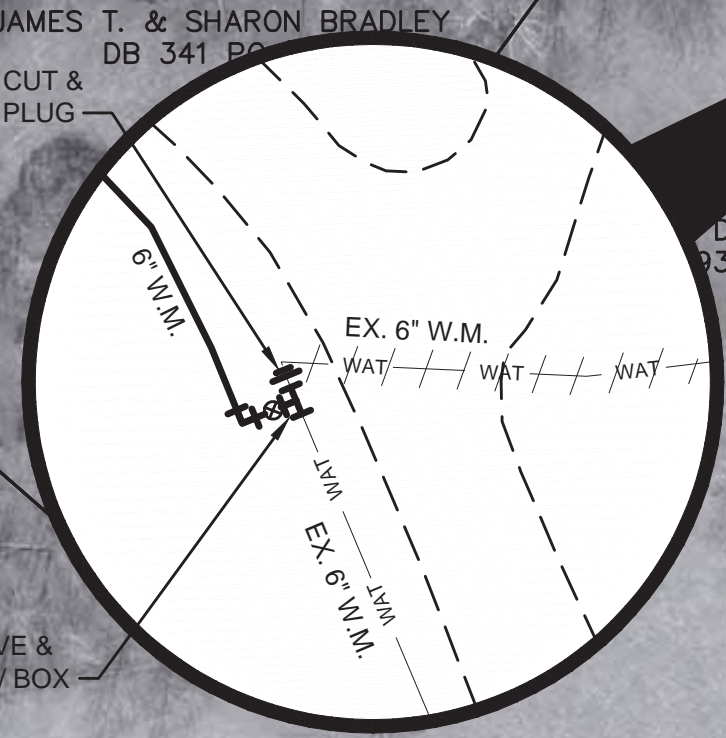
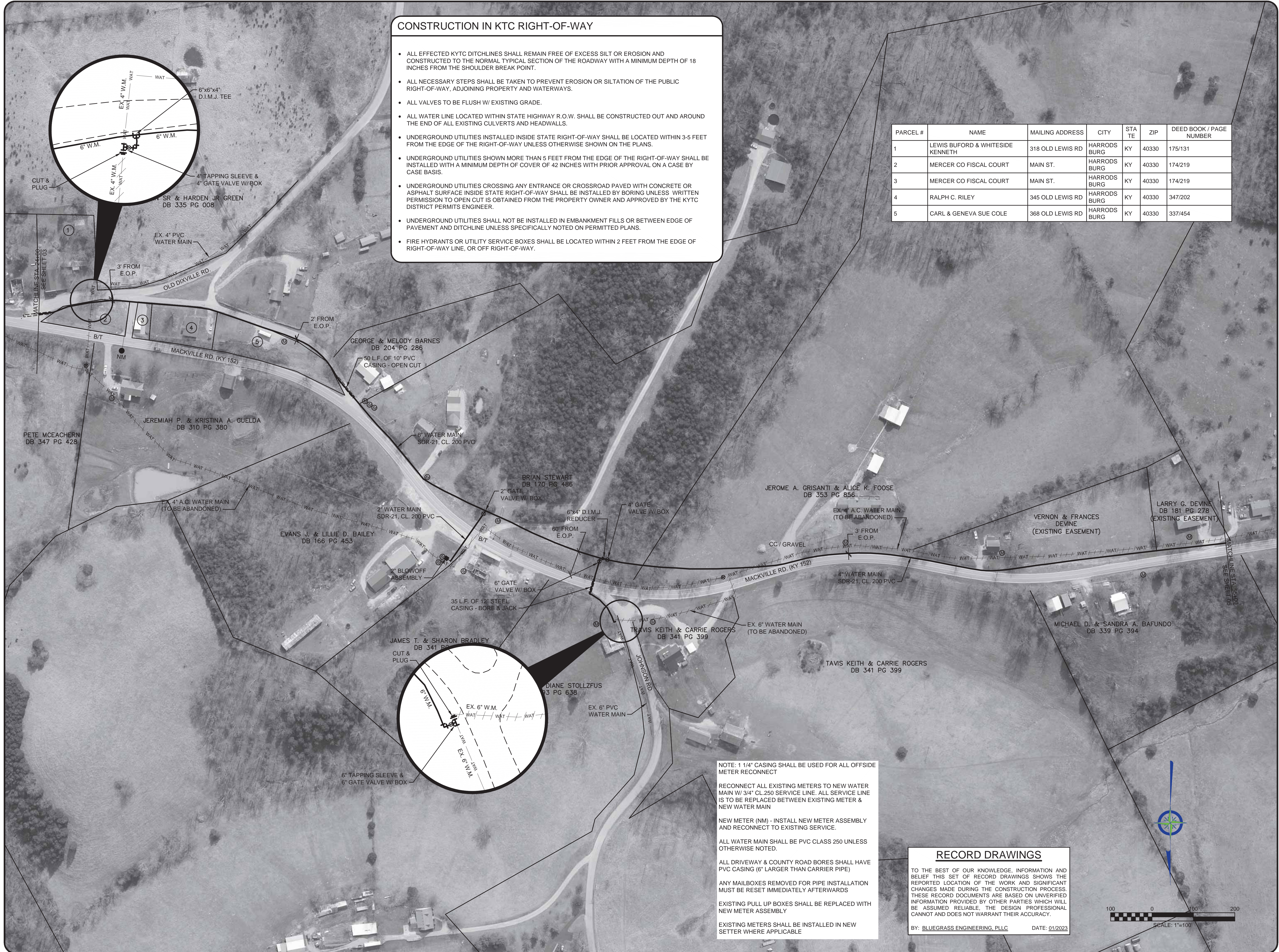
2019 WATER SYSTEM IMPROVEMENTS  
CONTRACT 2C  
MACKVILLE ROAD



PROJECT #: 18029  
DATE: OCTOBER 2019  
PROJECT MGR: LRS  
DRAWN BY: WCM  
CHECKED BY: PBR



04



NOTE: 1 1/4" CASING SHALL BE USED FOR ALL OFFSIDE METER RECONNECT

RECONNECT ALL EXISTING METERS TO NEW WATER MAIN W/ 3/4" CL.250 SERVICE LINE. ALL SERVICE LINE IS TO BE REPLACED BETWEEN EXISTING METER & NEW WATER MAIN

NEW METER (NM) - INSTALL NEW METER ASSEMBLY AND RECONNECT TO EXISTING SERVICE.

ALL WATER MAIN SHALL BE PVC CLASS 250 UNLESS OTHERWISE NOTED.

ALL DRIVEWAY & COUNTY ROAD BORES SHALL HAVE PVC CASING (6" LARGER THAN CARRIER PIPE)

ANY MAILBOXES REMOVED FOR PIPE INSTALLATION MUST BE RESET IMMEDIATELY AFTERWARDS

EXISTING PULL UP BOXES SHALL BE REPLACED WITH NEW METER ASSEMBLY

EXISTING METERS SHALL BE INSTALLED IN NEW SETTER WHERE APPLICABLE

**RECORD DRAWINGS**

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BY: BLUEGRASS ENGINEERING, PLLC DATE: 01/2023

RECORD DRAWINGS



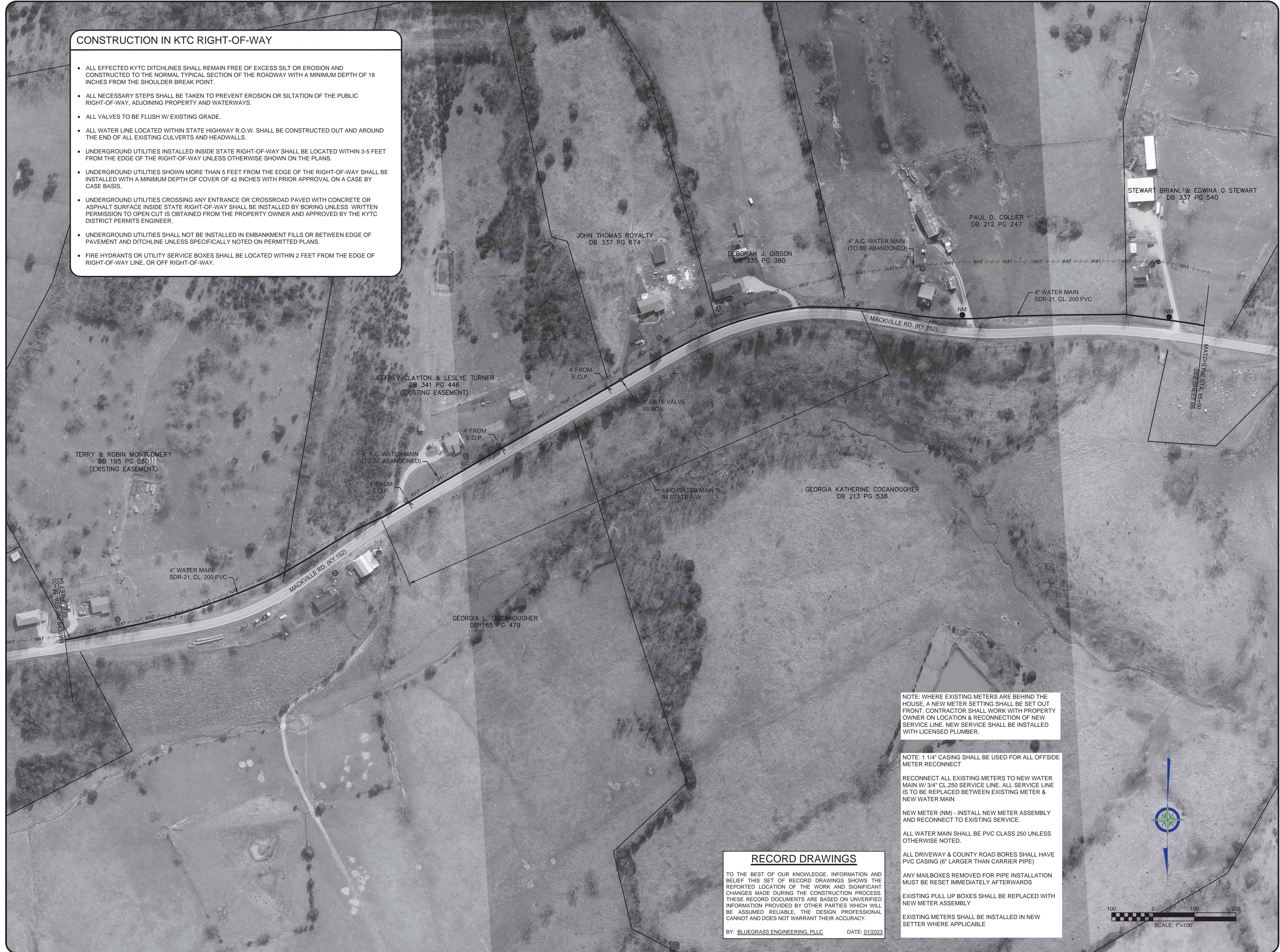
THIS DRAWING HAS BEEN PREPARED AT THE SCALE INDICATED. REPRODUCTION OF THIS DRAWING MAY INTRODUCE INACCURACIES OF THE LISTED SCALE. THE GRAPHIC SCALE BAR SHALL BE USED TO DETERMINE THE ACTUAL SCALE.

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B:\PROJECTS\North Mercer Water District\18029 - 2019 Water System Improvements\Drawings\Record Drawings\Mackville Road.dwg BE 2/1/23

**CONSTRUCTION IN KTC RIGHT-OF-WAY**

- ALL EFFECTED KYTC DITCHLINES SHALL REMAIN FREE OF EXCESS SILT OR EROSION AND CONSTRUCTED TO THE NORMAL TYPICAL SECTION OF THE ROADWAY WITH A MINIMUM DEPTH OF 18 INCHES FROM THE SHOULDER BREAK POINT.
- ALL NECESSARY STEPS SHALL BE TAKEN TO PREVENT EROSION OR SILTATION OF THE PUBLIC RIGHT-OF-WAY, ADJOINING PROPERTY AND WATERWAYS.
- ALL VALVES TO BE FLUSH W/ EXISTING GRADE.
- ALL WATER LINE LOCATED WITHIN STATE HIGHWAY R.O.W. SHALL BE CONSTRUCTED OUT AND AROUND THE END OF ALL EXISTING CULVERTS AND HEADWAYS.
- UNDERGROUND UTILITIES INSTALLED INSIDE STATE RIGHT-OF-WAY SHALL BE LOCATED WITHIN 3-5 FEET FROM THE EDGE OF THE RIGHT-OF-WAY UNLESS OTHERWISE SHOWN ON THE PLANS.
- UNDERGROUND UTILITIES SHOWN MORE THAN 5 FEET FROM THE EDGE OF THE RIGHT-OF-WAY SHALL BE INSTALLED WITH A MINIMUM DEPTH OF COVER OF 42 INCHES WITH PRIOR APPROVAL ON A CASE BY CASE BASIS.
- UNDERGROUND UTILITIES CROSSING ANY ENTRANCE OR CROSSROAD PAVED WITH CONCRETE OR ASPHALT SURFACE INSIDE STATE RIGHT-OF-WAY SHALL BE INSTALLED BY BORING UNLESS WRITTEN PERMISSION TO OPEN CUT IS OBTAINED FROM THE PROPERTY OWNER AND APPROVED BY THE KYTC DISTRICT PERMITS ENGINEER.
- UNDERGROUND UTILITIES SHALL NOT BE INSTALLED IN EMBANKMENT FILLS OR BETWEEN EDGE OF PAVEMENT AND DITCHLINE UNLESS SPECIFICALLY NOTED ON PERMITTED PLANS.
- FIRE HYDRANTS OR UTILITY SERVICE BOXES SHALL BE LOCATED WITHIN 2 FEET FROM THE EDGE OF RIGHT-OF-WAY LINE, OR OFF RIGHT-OF-WAY.



**RECORD DRAWINGS**

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BY: BLUEGRASS ENGINEERING, PLLC DATE: 01/2023

NOTE: WHERE EXISTING METERS ARE BEHIND THE HOUSE, A NEW METER SETTING SHALL BE SET OUT FRONT. CONTRACTOR SHALL WORK WITH PROPERTY OWNER ON LOCATION & RECONNECTION OF NEW SERVICE LINE. NEW SERVICE SHALL BE INSTALLED WITH LICENSED PLUMBER.

NOTE: 1 1/4" CASING SHALL BE USED FOR ALL OFFSIDE METER RECONNECT

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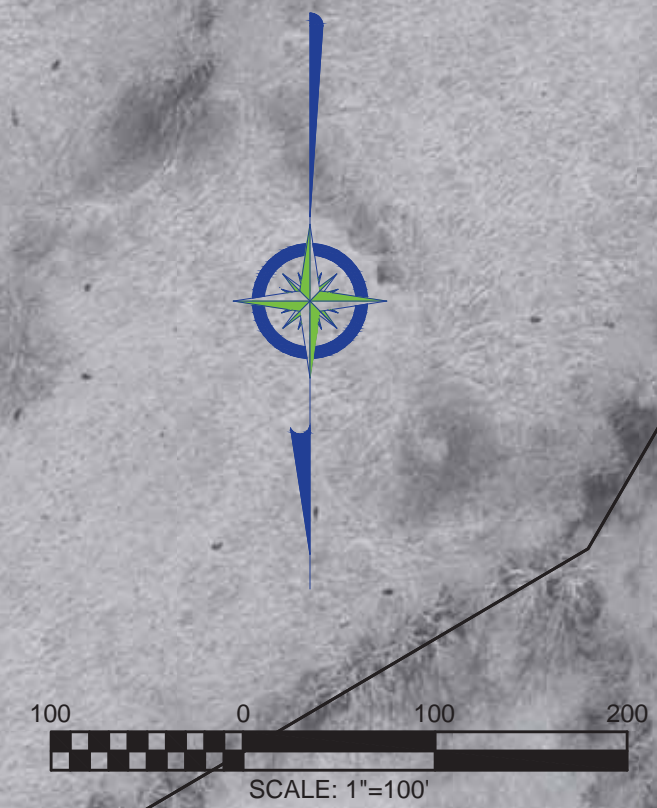
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EXISTING METERS SHALL BE INSTALLED IN NEW SETTER WHERE APPLICABLE



NO.	DATE	REVISIONS	BY
	5/2020	REVISIONS MADE PER KDOV COMMENTS	WCM

2019 WATER SYSTEM IMPROVEMENTS  
CONTRACT 2C  
MACKVILLE ROAD



PROJECT #: 18029  
DATE: OCTOBER 2019  
PROJECT MGR: LRS  
DRAWN BY: WCM  
CHECKED BY: PBR



05

RECORD DRAWINGS

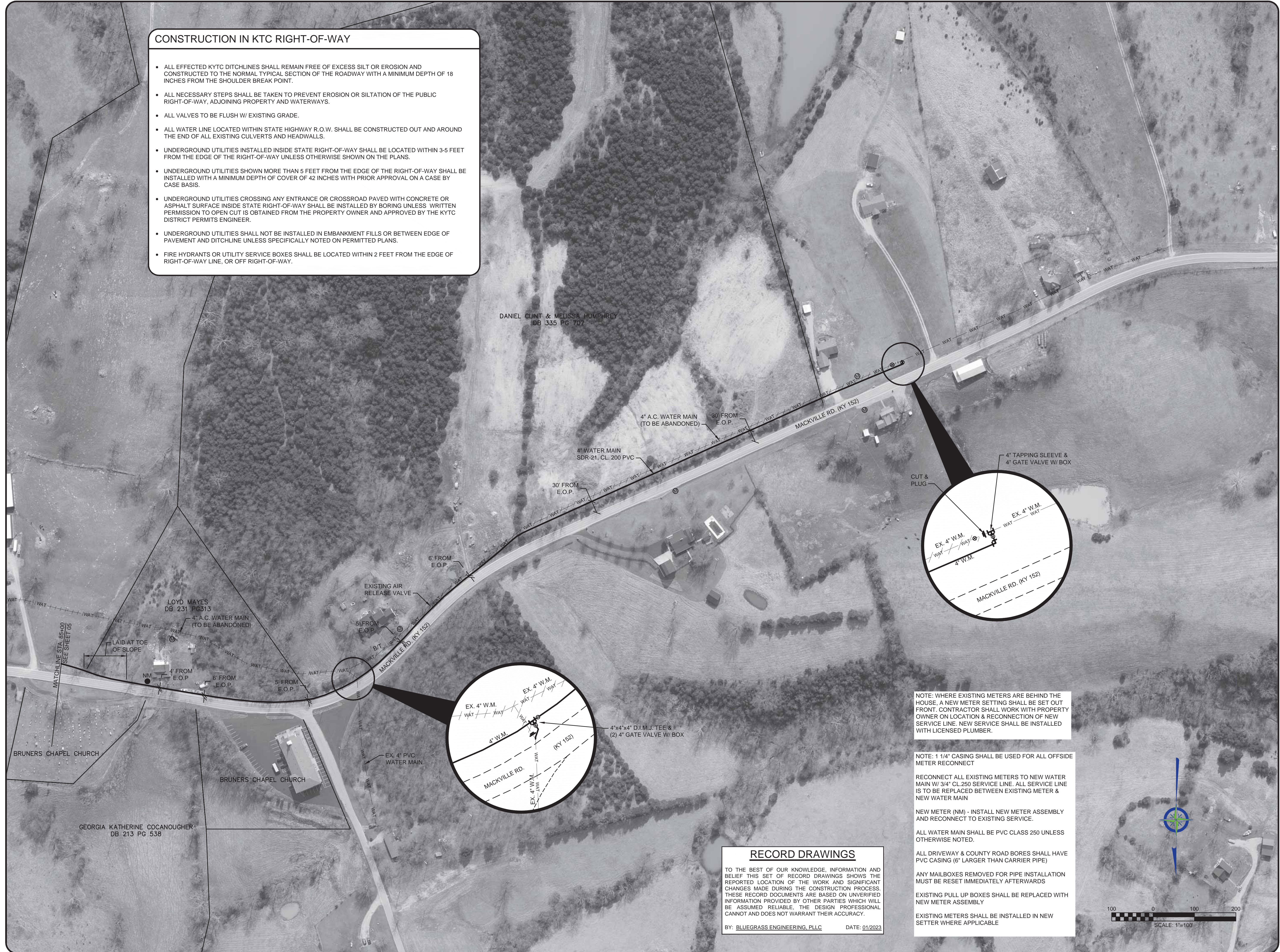


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B:\PROJECTS\North Mercer Water District\18029 - 2019 Water System Improvements\Drawings\Record Drawings\Contract 2018029-05-06\18029-05-06\MACKVILLE ROAD.dwg BE 2/1/23

- ### CONSTRUCTION IN KTC RIGHT-OF-WAY
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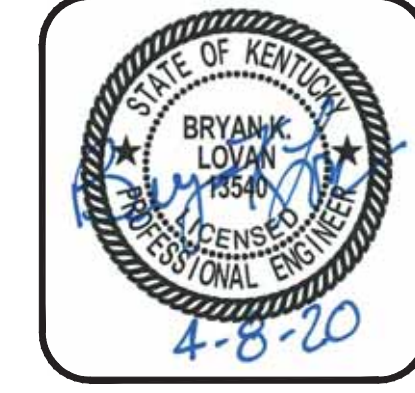
BY: BLUEGRASS ENGINEERING, PLLC DATE: 01/2023

NO.	DATE	REVISIONS	BY
	5/2020	REVISIONS MADE PER KDOV COMMENTS	WCM

2019 WATER SYSTEM IMPROVEMENTS  
CONTRACT 2C  
MACKVILLE ROAD



PROJECT #: 18029  
DATE: OCTOBER 2019  
PROJECT MGR: LRS  
DRAWN BY: WCM  
CHECKED BY: PBR



06

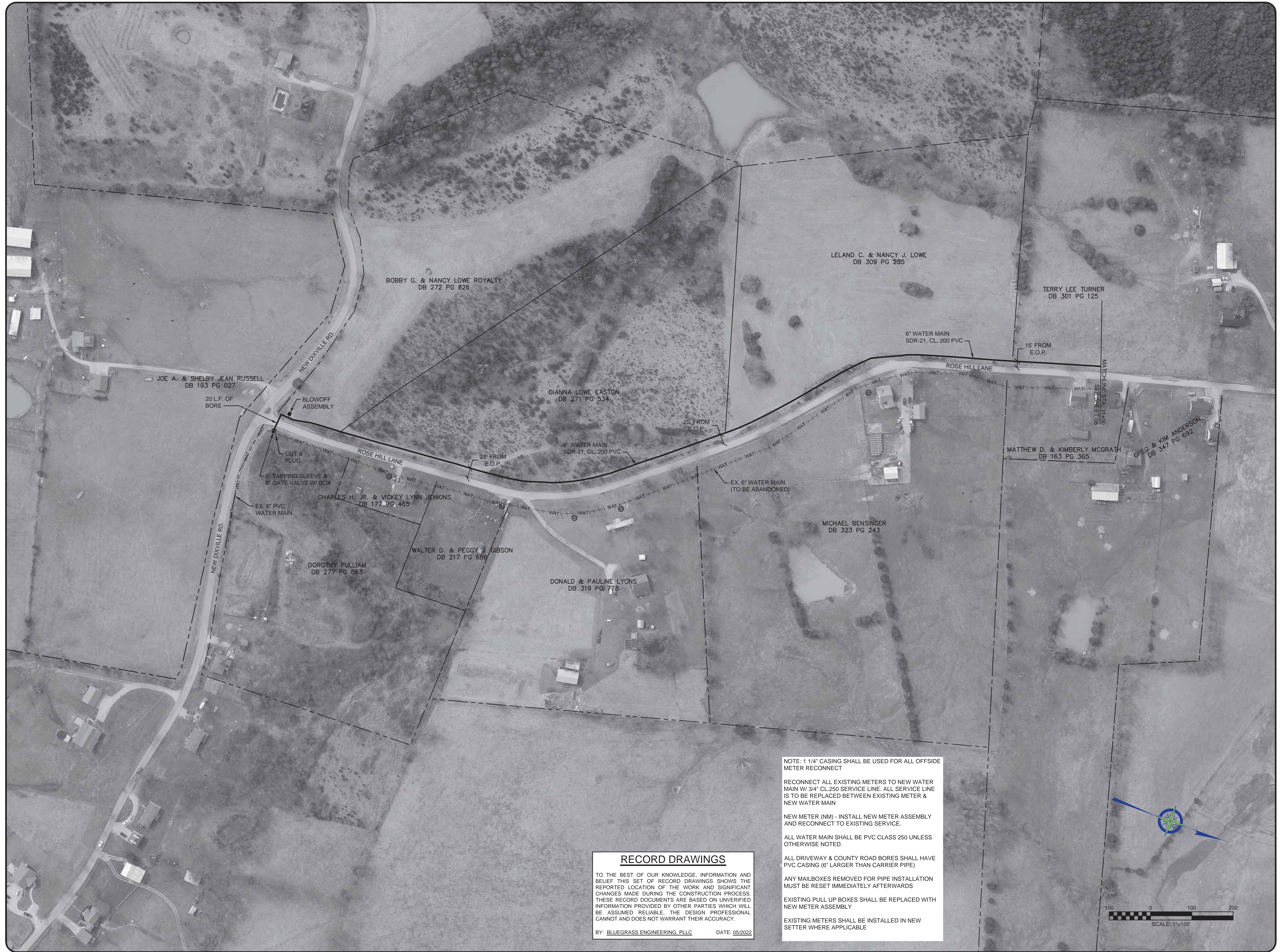
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B:\PROJECTS\North Mercer\Water District\18029 - 2019 Water System Improvements\Drawings\Record Drawings\Contract 2C18029-01-09 ROSE HILL LANE.dwg BE 2/01/23



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BY: BLUEGRASS ENGINEERING, PLLC      DATE: 05/2022

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	5/2020	REVISIONS MADE PER KDOOW COMMENTS	WCM

**2019 WATER SYSTEM IMPROVEMENTS  
CONTRACT 2C**

ROSE HILL LANE



PROJECT #: 18029  
 DATE: OCTOBER 2019  
 PROJECT MGR: LRS  
 DRAWN BY: WCM  
 CHECKED BY: PBR



07

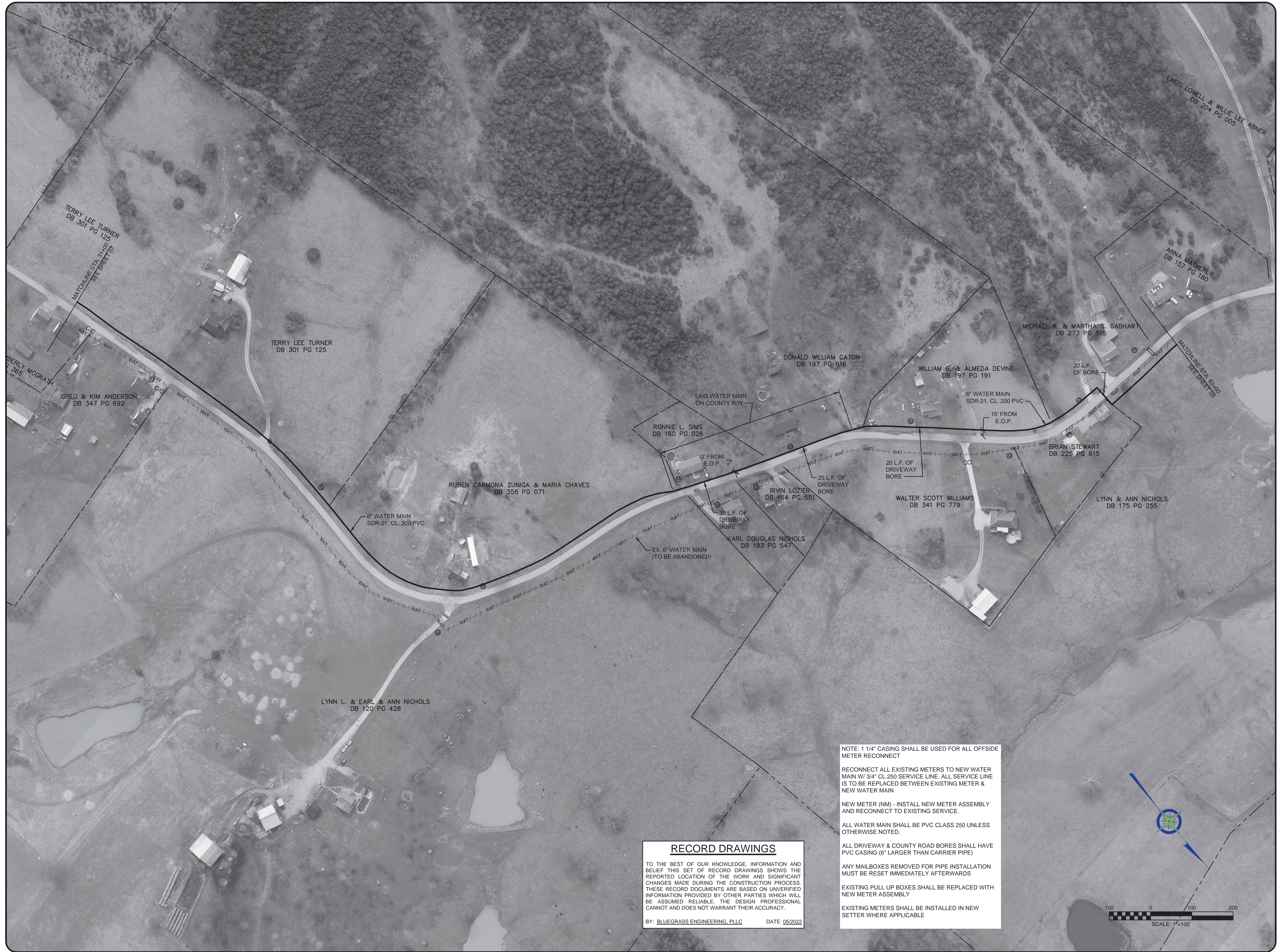
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B:\PROJECTS\North Mercer Water District\18029 - 2019 Water System Improvements\Drawings\Record Drawings\Record Drawings\2019 Water System Improvements Contract 2C\18029-01-09 ROSE HILL LANE.dwg BE 2/1/23



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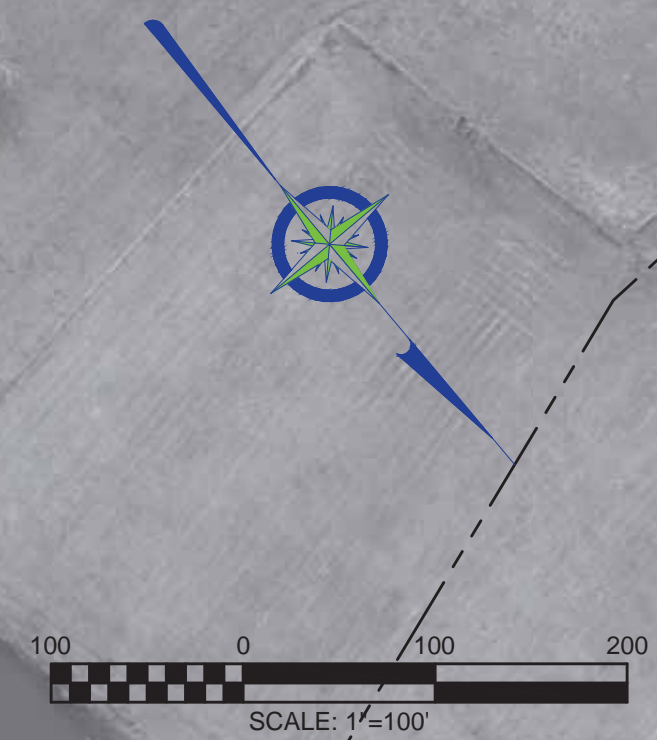
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2019 WATER SYSTEM IMPROVEMENTS  
CONTRACT 2C  
ROSE HILL LANE



PROJECT #: 18029  
DATE: OCTOBER 2019  
PROJECT MGR: LRS  
DRAWN BY: WCM  
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08

RECORD DRAWINGS



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BE 2/01/23

B:\PROJECTS\North Mercer Water District\18029 - 2019 Water System Improvements\Drawings\Record Drawings\Contract 2018029-07-09 ROSE HILL LANE.dwg



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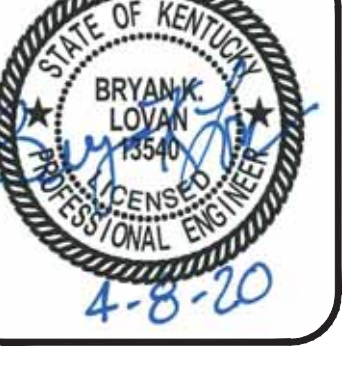
NO.	DATE	REVISIONS	BY
	5/2020	REVISIONS MADE PER KDOOW COMMENTS	WCM

2019 WATER SYSTEM IMPROVEMENTS  
CONTRACT 2C

ROSE HILL LANE



PROJECT #: 18029  
DATE: OCTOBER 2019  
PROJECT MGR: LRS  
DRAWN BY: WCM  
CHECKED BY: PBR



09

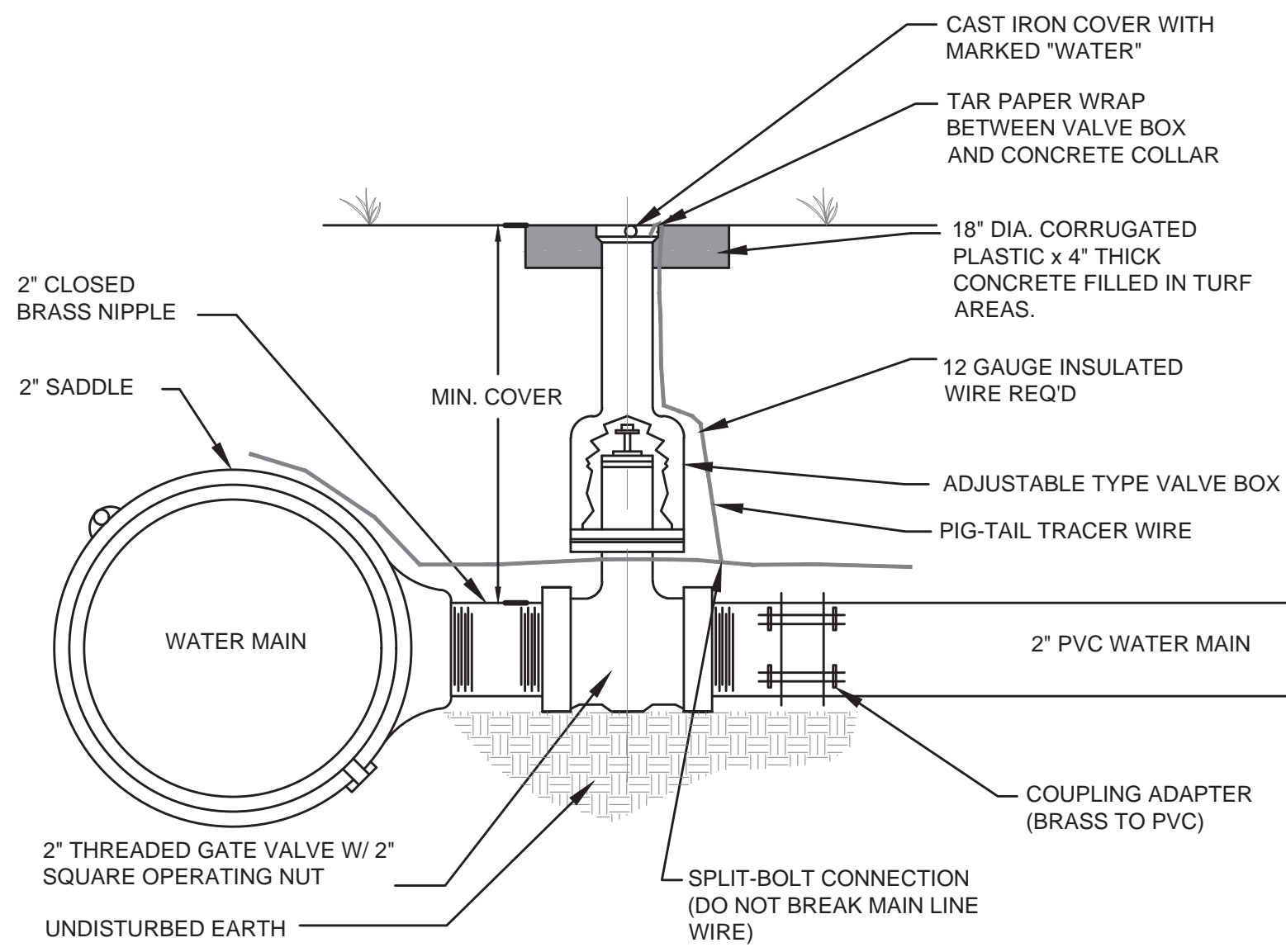
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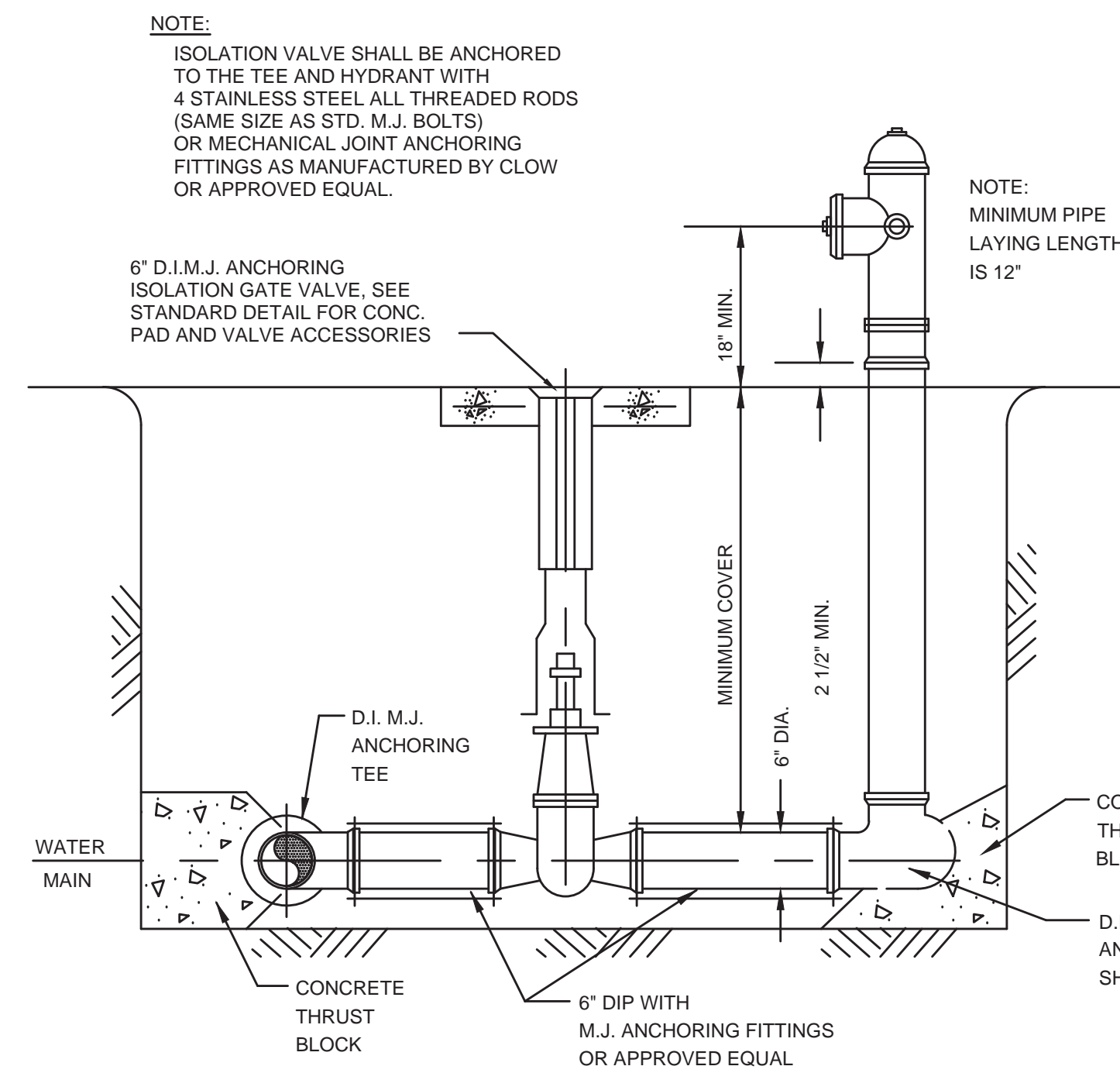
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B:\PROJECTS\North Mercer Water District\18029 - 2018 Water System Improvements\Drawings\Record Drawings\Contract 2C (10-12).dwg BE 2/01/23



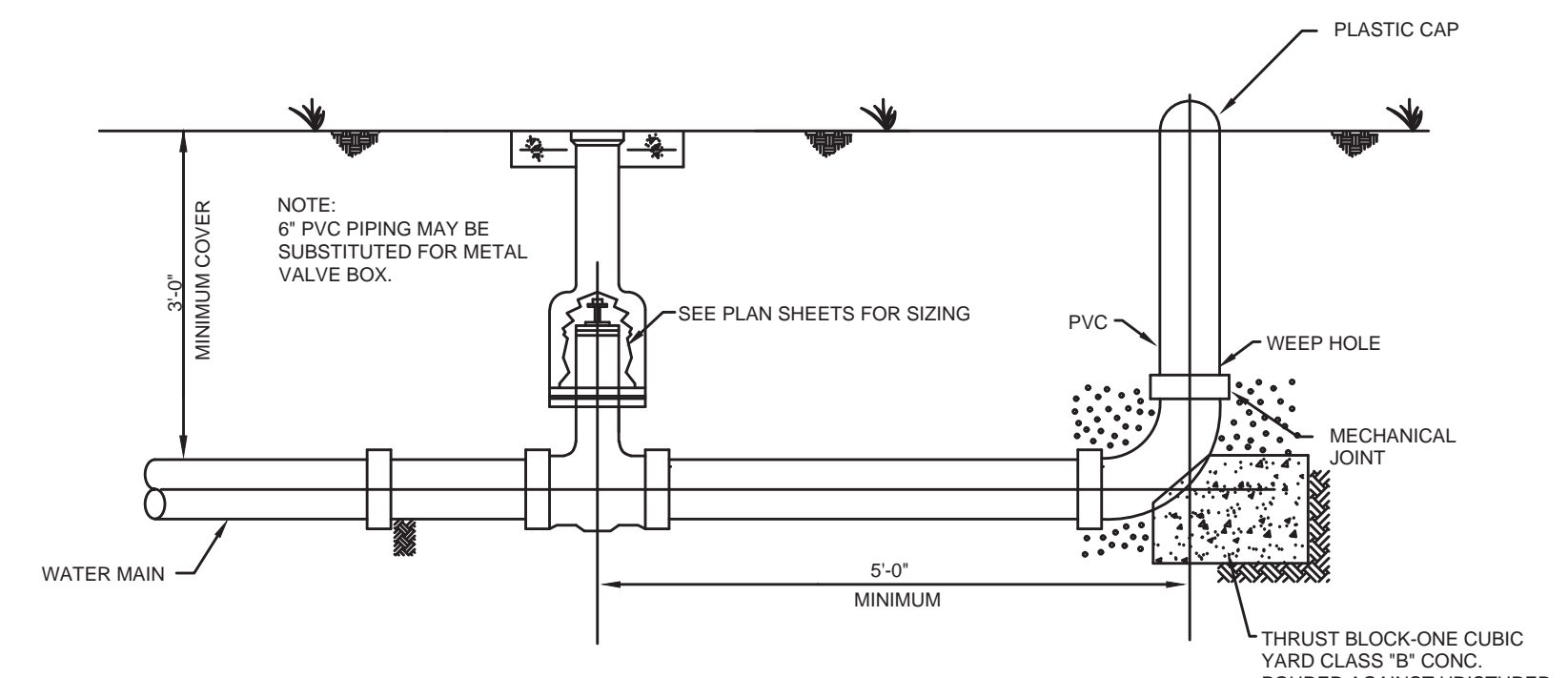
**CONNECTION FOR 2" WATER MAINS**

NOT TO SCALE



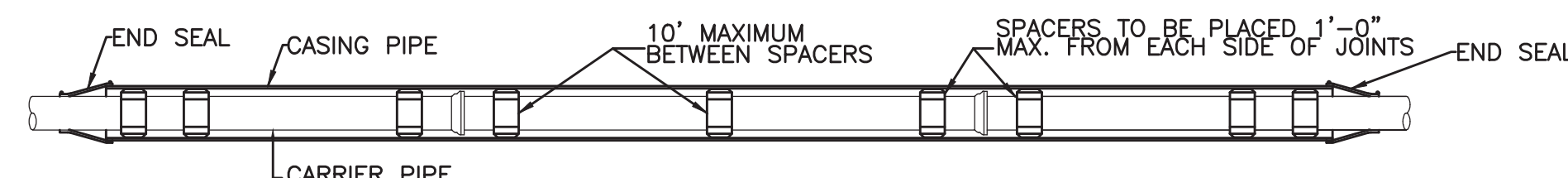
**FLUSHING HYDRANT ASSEMBLY**

NOT TO SCALE

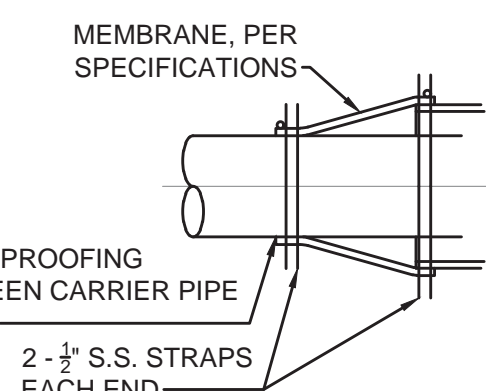


**E.O.L. 2", 3", or 4" UNDERGROUND BLOWOFF ASSEMBLY**

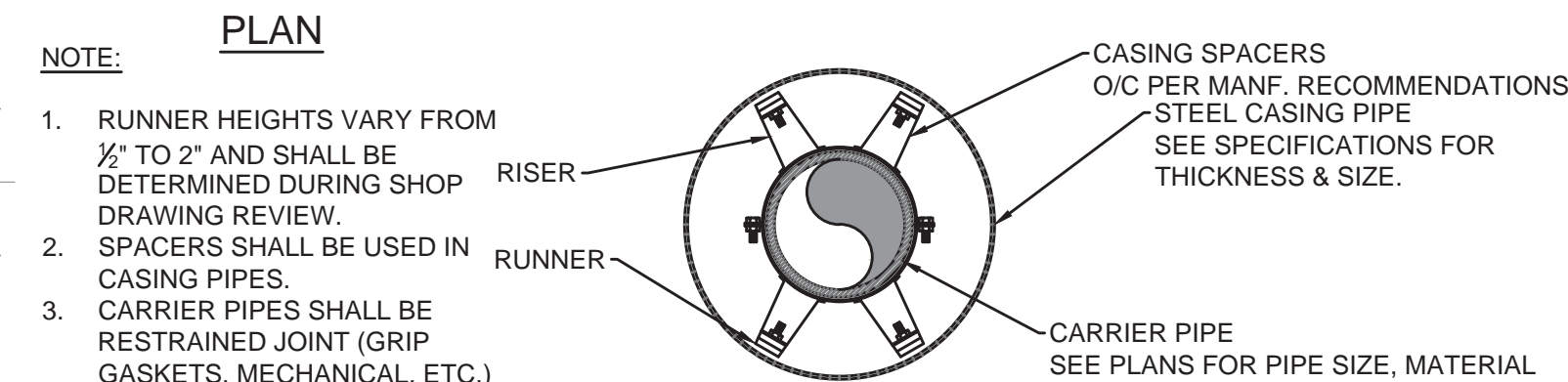
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**PLAN**



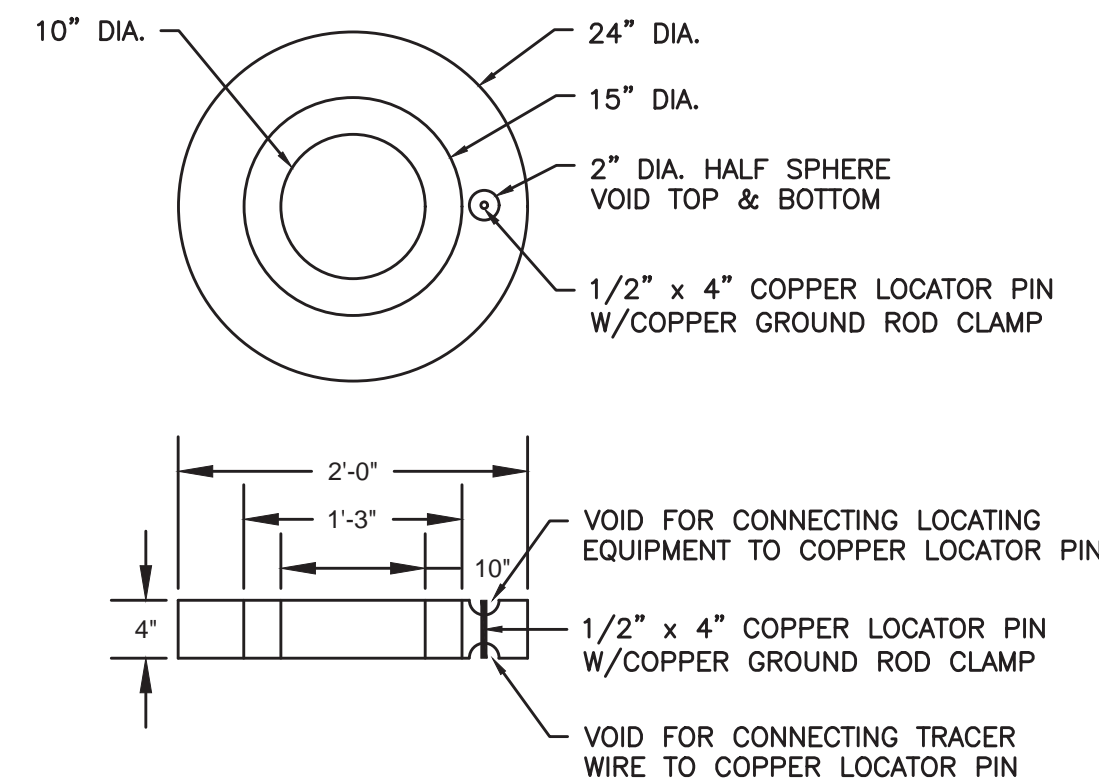
**DETAIL - END SEAL**



**CROSS SECTION**

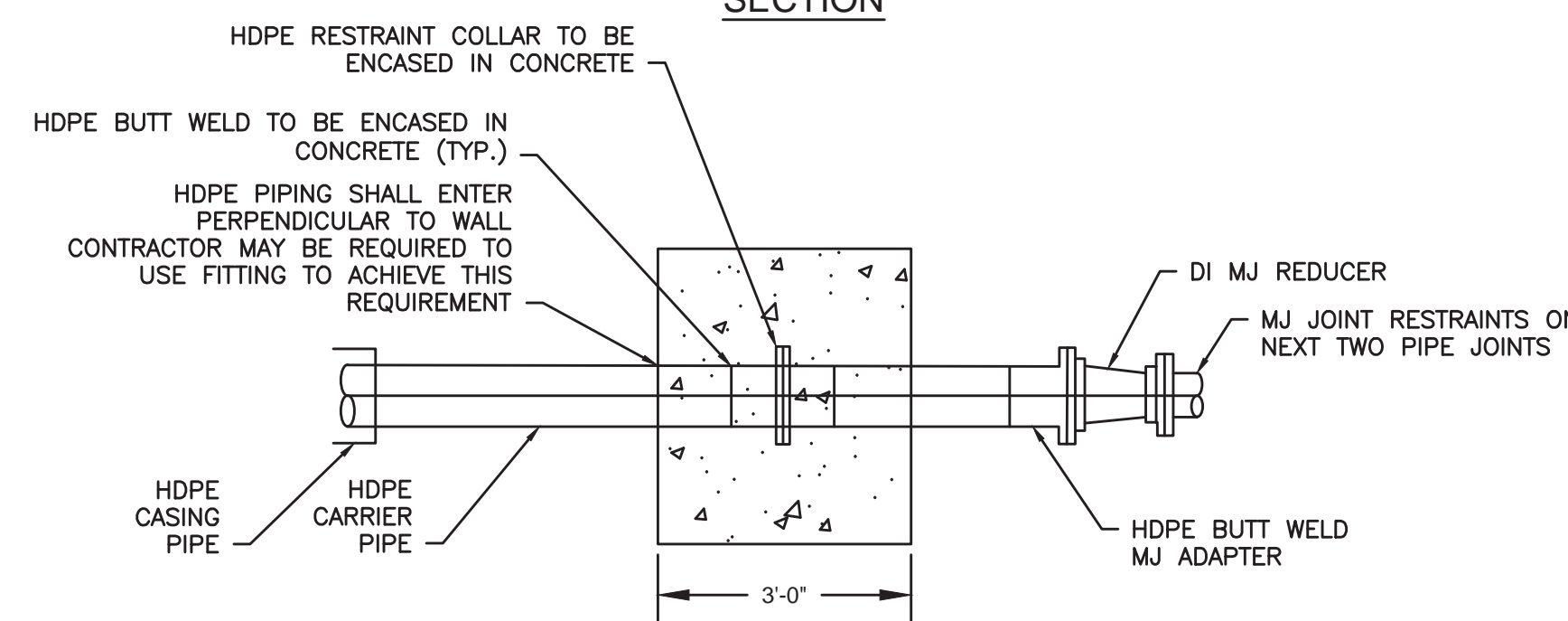
**DETAIL - STEEL CASING**

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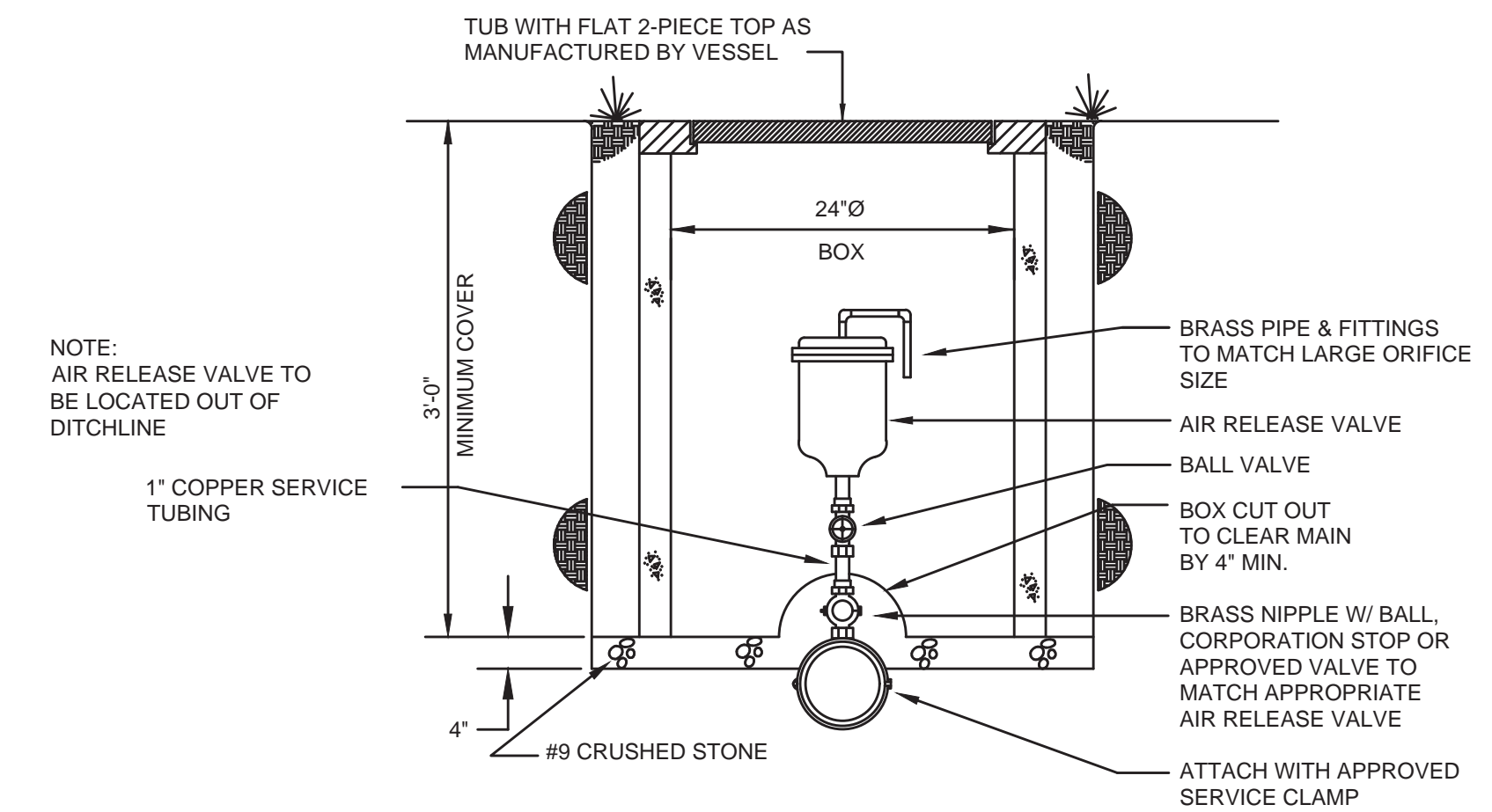
**24" DIAMETER CONCRETE VALVE BOX PROTECTOR RING W/COPPER LOCATOR PIN**

NOT TO SCALE



**HDPE RESTRAINT WALL**

NOT TO SCALE



**AIR RELEASE VALVE**

NOT TO SCALE

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BY: BLUEGRASS ENGINEERING, PLLC DATE: 05/2022

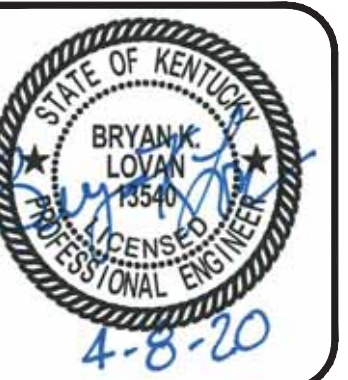
NO.	DATE	BY

2019 WATER SYSTEM IMPROVEMENTS  
CONTRACT 2C

STANDARD DETAILS

**BLUEGRASS ENGINEERING, PLLC**  
222 East Main Street, Ste. 1 • Georgetown, KY 40324

PROJECT #: 18029  
DATE: OCTOBER 2019  
PROJECT MGR: LRS  
DRAWN BY: WCM  
CHECKED BY: PBR

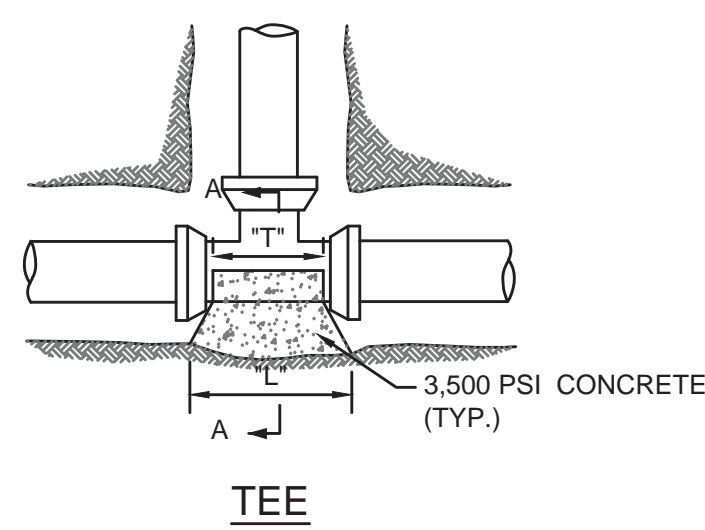
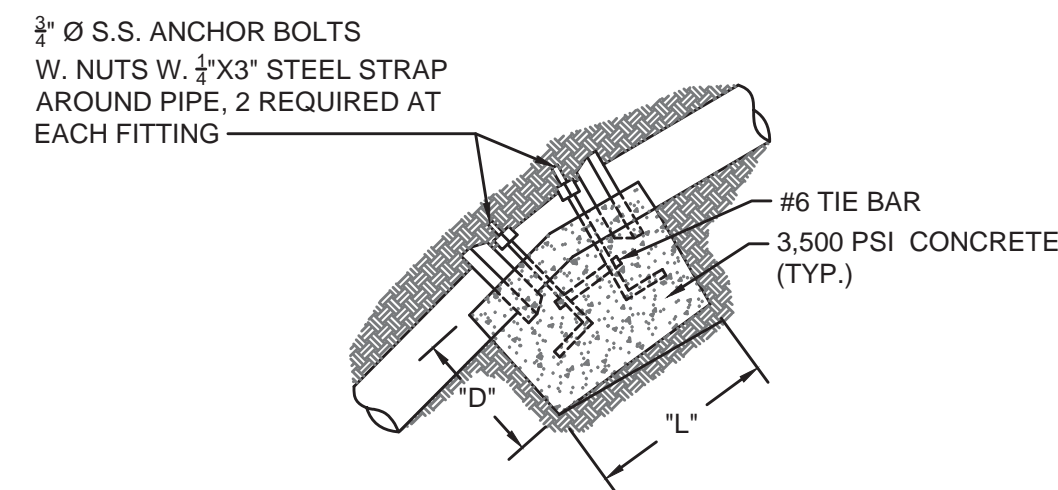
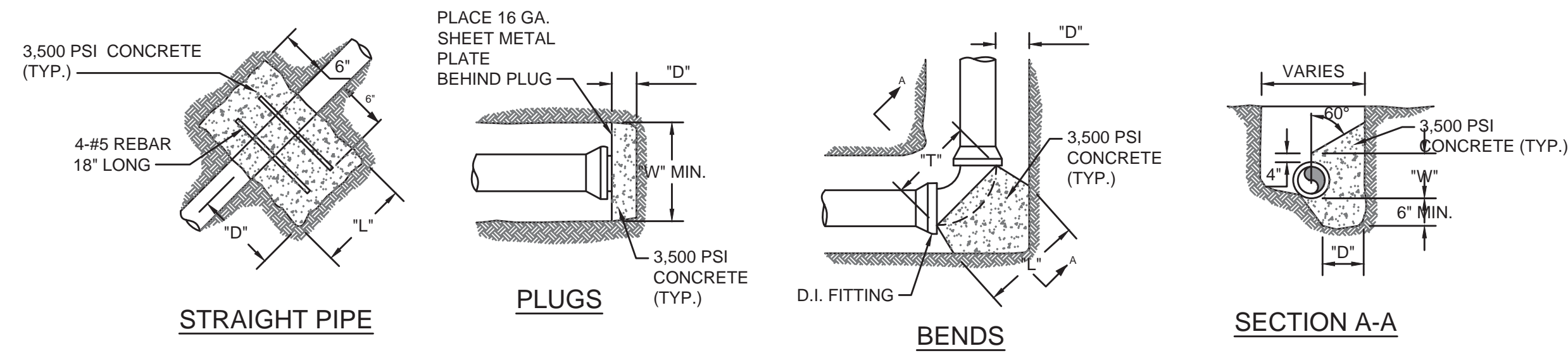




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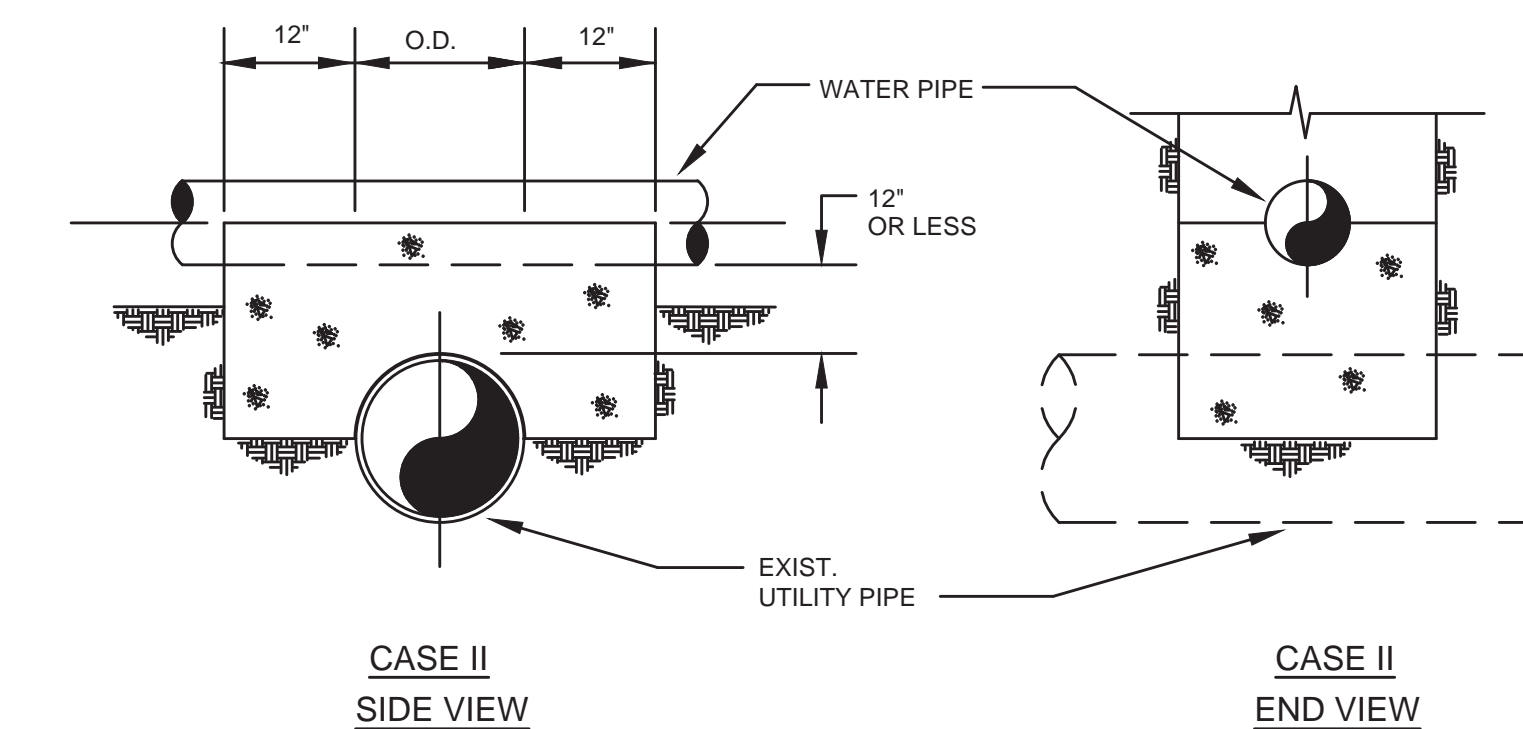
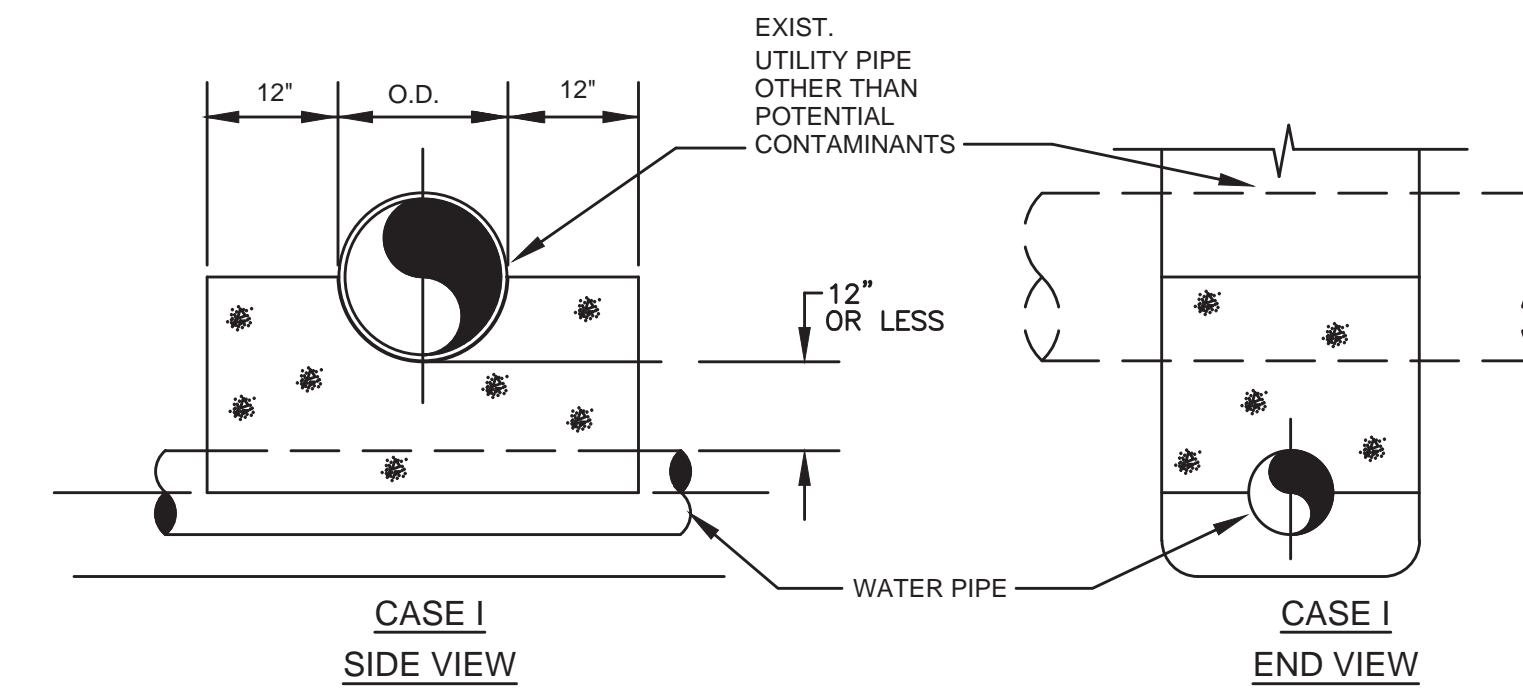
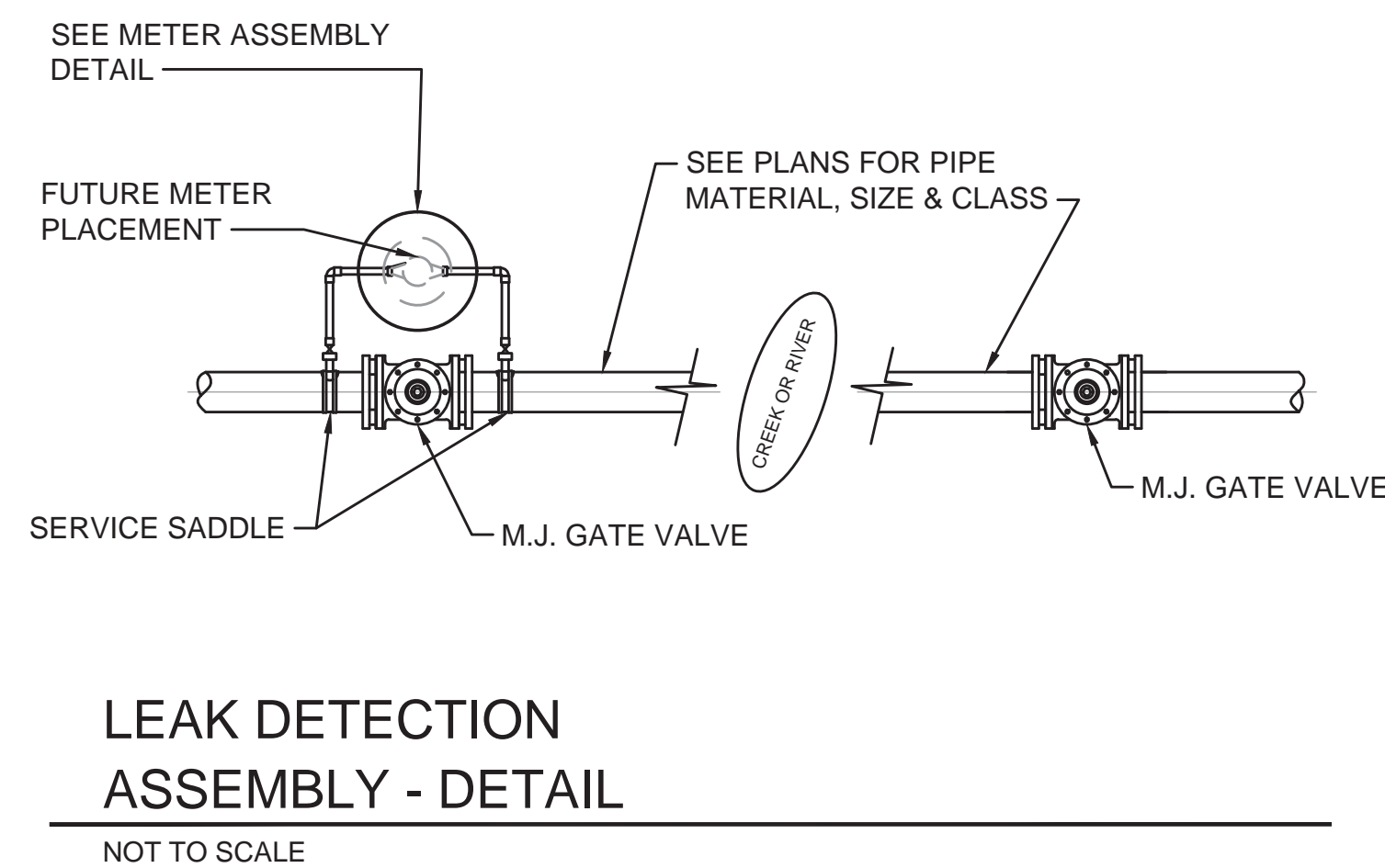
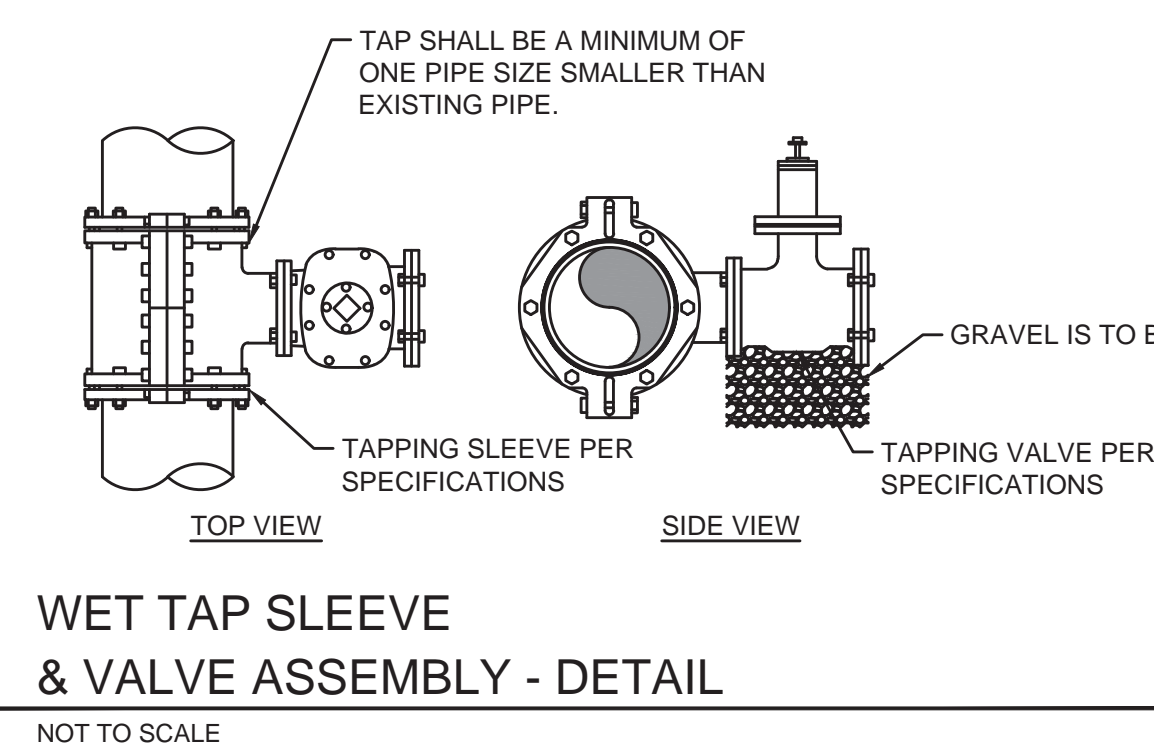
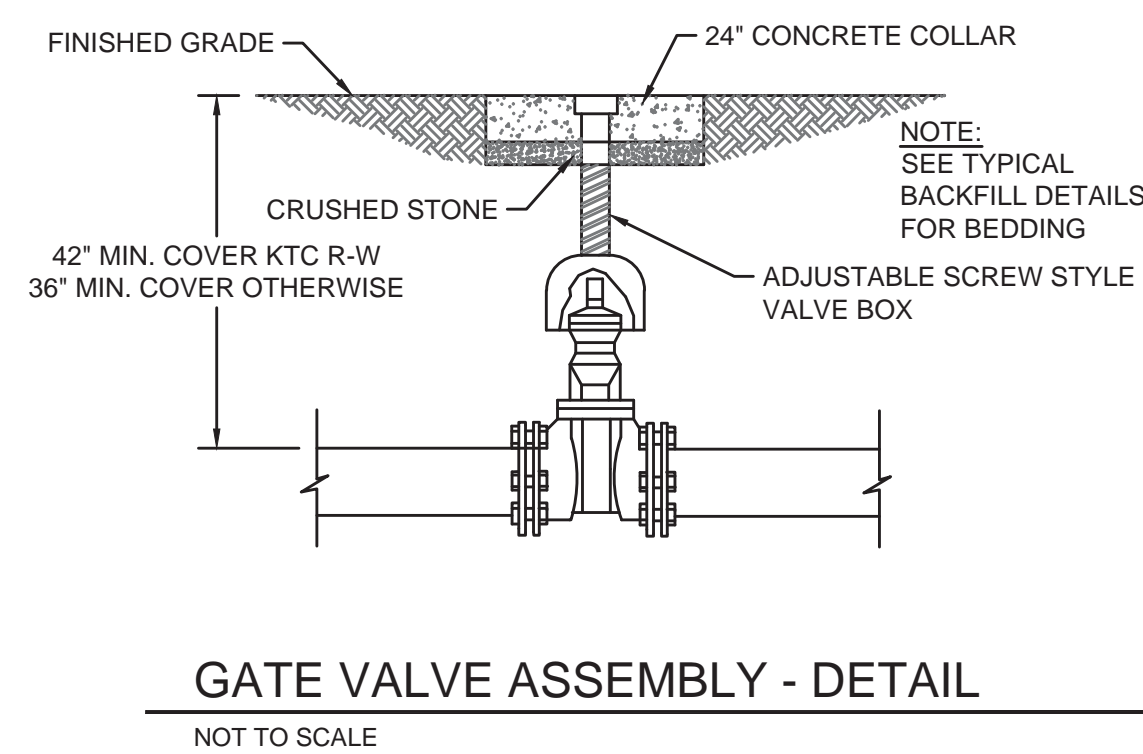
B:\PROJECTS\North Mercer Water District\18029 - 2019 Water System Improvements\Drawings\Record Drawings\Contract 2C (10-12).dwg BE 2/01/23



- NOTE:**
- SEE PLAN SHEETS FOR SIZE, MATERIAL & LOCATION OF PIPE.
  - SIDES OF ALL TRENCHES TO BE UNDISTURBED SOIL.
  - SEE THIS SHEET FOR BACK FILL DETAILS.
  - DEPTH "D" MAY NOT BE SMALLER THAN SPECIFIED.
  - PIERS SHALL BE PLACED AGAINST UNDISTURBED SOIL.
  - PLACE CONCRETE ANCHORS 25' C/C.

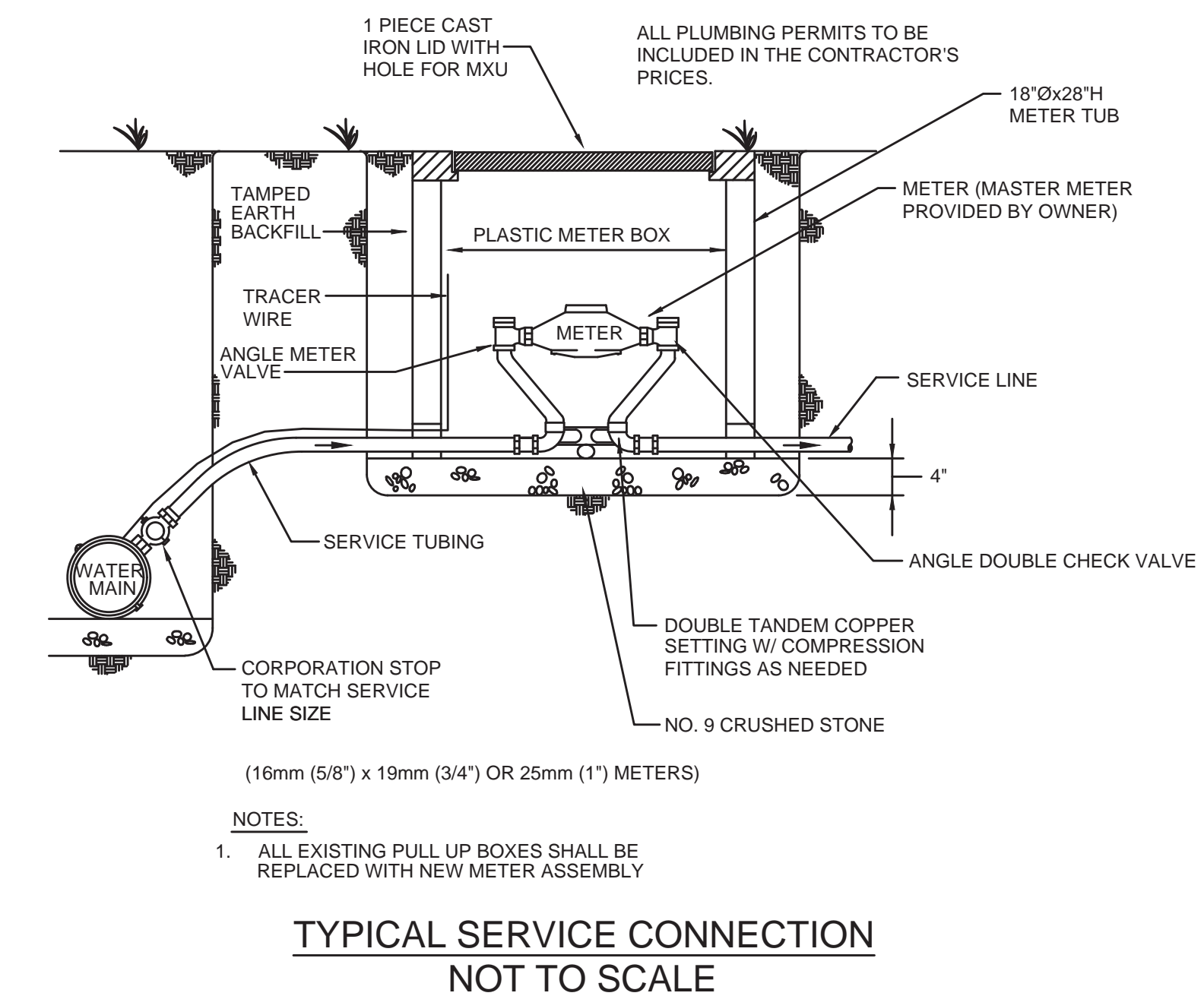
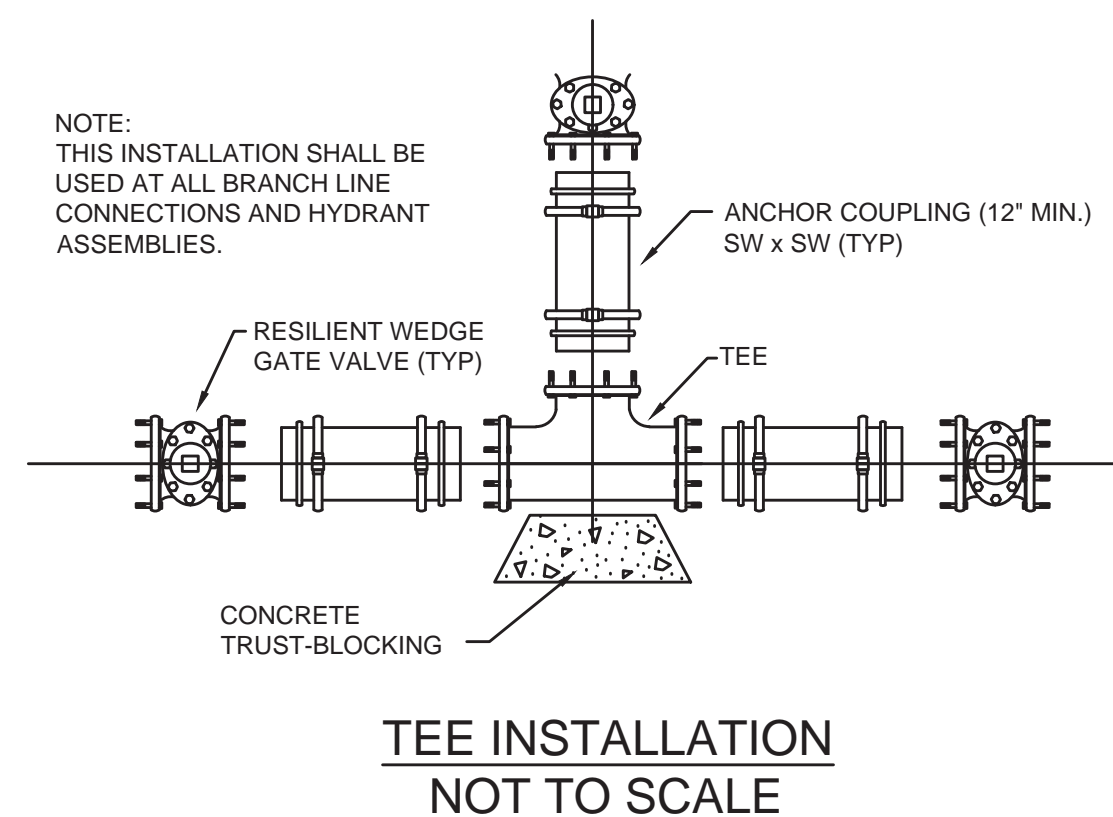
PIPE SIZE	90° BEND				45° BEND				22 1/2° BEND				11 1/2° BEND				TEE & DEAD ENDS				
	BEARING AREA	YDS OF CONCRETE	D	W	BEARING AREA	YDS OF CONCRETE	D	W	BEARING AREA	YDS OF CONCRETE	D	W	BEARING AREA	YDS OF CONCRETE	D	W	BEARING AREA	YDS OF CONCRETE			
4"	3.750	.21	18	30	1.750	.10	18	18	1.000	.06	18	12	12	.500	.02	12	12	6	2.250	.13	18
6"	7.000	.39	18	42	3.750	.21	18	30	2.000	.11	18	24	12	1.000	.04	12	12	5.000	.28	18	
8"	12.250	.91	24	42	7.500	.56	24	36	4.000	.30	24	24	24	2.000	.11	18	24	12	9.000	.67	24
10"	20.000	1.48	24	60	10.500	.78	24	42	6.000	.44	24	36	24	3.000	.17	18	24	18	14.000	1.04	24
12"	30.000	2.78	30	72	15.750	1.46	30	54	7.500	.69	30	36	30	4.000	.30	24	24	20.000	1.85	30	
14"	39.000	4.33	36	78	20.000	2.22	36	60	10.500	1.17	36	42	36	6.000	.56	30	36	27.500	3.06	36	
16"	49.000	6.35	42	84	27.500	3.56	42	66	14.000	1.81	42	48	42	7.500	.83	36	36	37.750	4.63	42	

**THRUST BLOCKING & CONCRETE ANCHORS - DETAIL**  
NOT TO SCALE



- NOTES:**
1. CONCRETE SEPARATOR SHALL BE USED WHEN CLEARANCE BETWEEN WATER LINE AND UTILITY PIPE IS 12" OR LESS.
  2. "UTILITY PIPE" INCLUDES UNDERGROUND WATER, NATURAL GAS, TELEPHONE, ELECTRICAL CONDUITS, STORM SEWER OR TYPICALLY NON-CONTAMINATING FACILITIES. WHEN CROSSING SANITARY SEWER OR POTENTIAL CONTAMINANTS SEE DETAIL "WATER/SANITARY SEWER CROSSING".

**UTILITY CROSSING CONCRETE SEPARATOR**  
NOT TO SCALE



**TYPICAL SERVICE CONNECTION**  
NOT TO SCALE

**RECORD DRAWINGS**

TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF THIS SET OF RECORD DRAWINGS SHOWS THE REPORTED LOCATION OF THE WORK AND SIGNIFICANT CHANGES MADE DURING THE CONSTRUCTION PROCESS. THESE RECORD DOCUMENTS ARE BASED ON UNVERIFIED INFORMATION PROVIDED BY OTHER PARTIES WHICH WILL BE ASSUMED RELIABLE. THE DESIGN PROFESSIONAL CANNOT AND DOES NOT WARRANT THEIR ACCURACY.

BY: BLUEGRASS ENGINEERING, PLLC DATE: 05/2022

NO.	DATE	BY

2019 WATER SYSTEM IMPROVEMENTS  
CONTRACT 2C  
STANDARD DETAILS



PROJECT #: 18029  
DATE: OCTOBER 2019  
PROJECT MGR: LRS  
DRAWN BY: WCM  
CHECKED BY: PBR



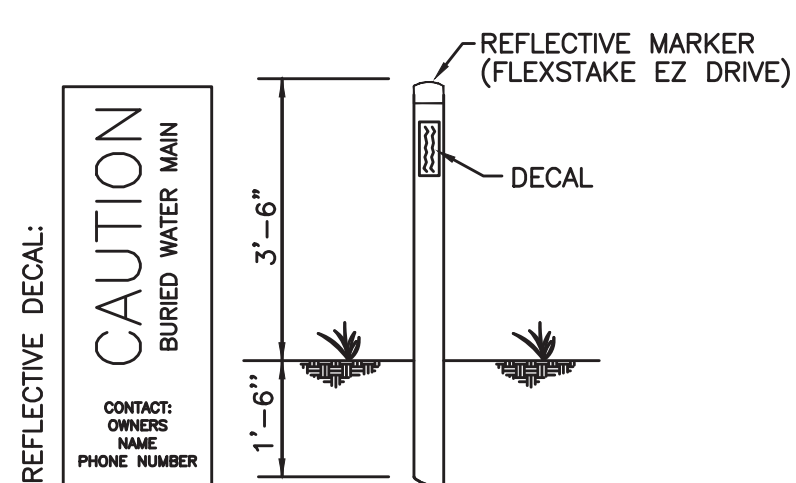


THIS DRAWING HAS BEEN PREPARED AT THE SCALE INDICATED. REPRODUCTION OF THIS DRAWING MAY INVOLVE THE OCCURRENCES OF THE LISTED SCALE. THE GRAPHIC SCALE BAR SHALL BE USED TO DETERMINE THE ACTUAL SCALE.

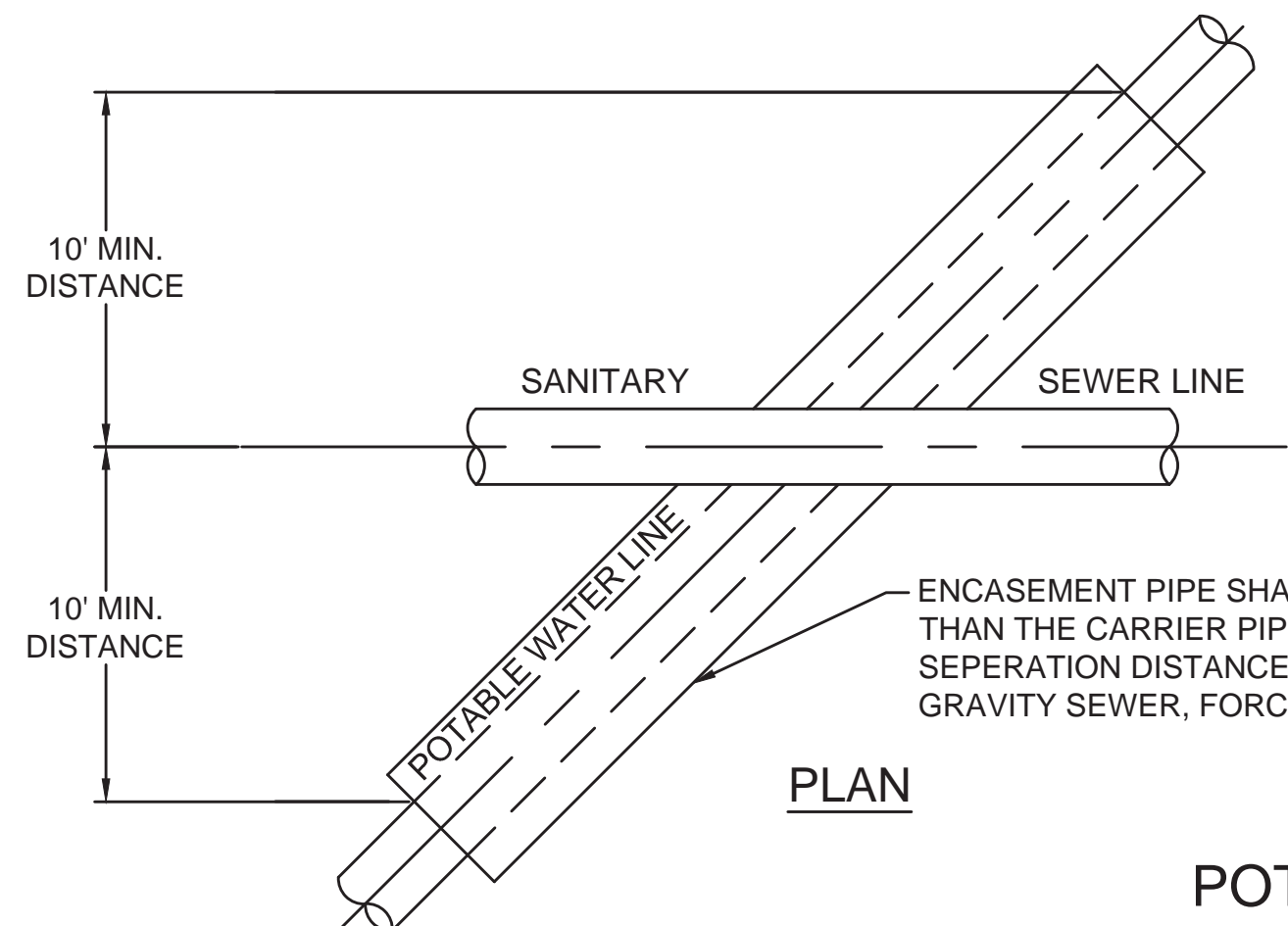
IT IS A VIOLATION OF LAW FOR ANY PERSON TO ALTER THIS DRAWING WITHOUT WRITTEN PERMISSION FROM BLUEGRASS ENGINEERING, PLLC AND ACTING UNDER THE DIRECTION OF A LICENSED ENGINEER.

B:\PROJECTS\North Mercer Water District\18029 - 2019 Water System Improvements\Drawings\Record Drawings\Contract 2C (10-12).dwg BE 2/01/23

**NOTE:**  
WATER MARKERS SHALL BE PLACED WHENEVER A ROAD CROSSING IS MADE AT EACH SIDE OF THE ROAD AND AT EACH VALVE OR SET OF VALVES.



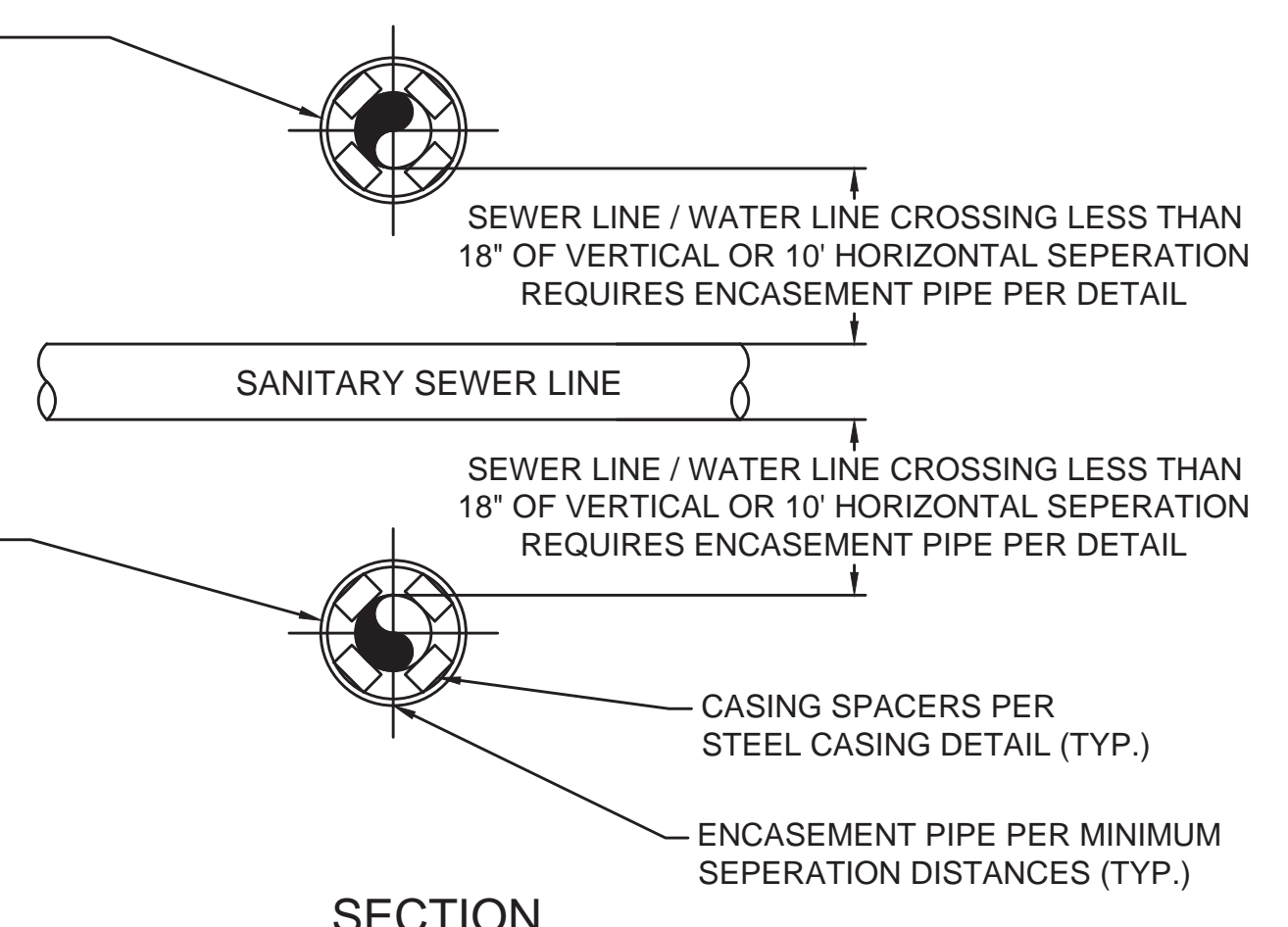
**WATER MARKER DETAIL**  
NOT TO SCALE



**PLAN**

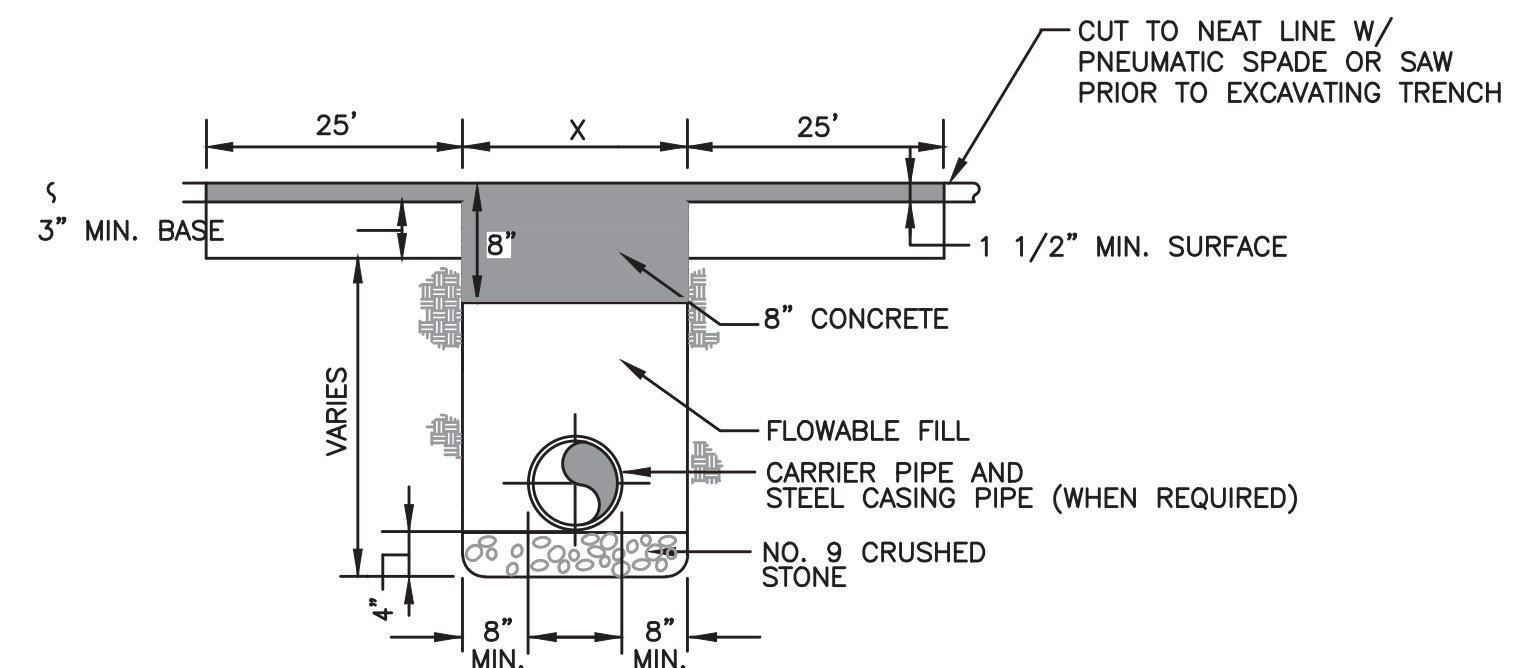
ENCASED POTABLE WATER MAIN (ABOVE SEWER LINE). FULL PIPE SECTION OF WATER MAIN TO BE CENTERED OVER SANITARY SEWER LINE TO MAXIMUM JOINT DISPLACEMENT

ENCASED POTABLE WATER MAIN (BELOW SEWER LINE). FULL PIPE SECTION OF WATER MAIN TO BE CENTERED OVER SANITARY SEWER LINE TO MAXIMUM JOINT DISPLACEMENT

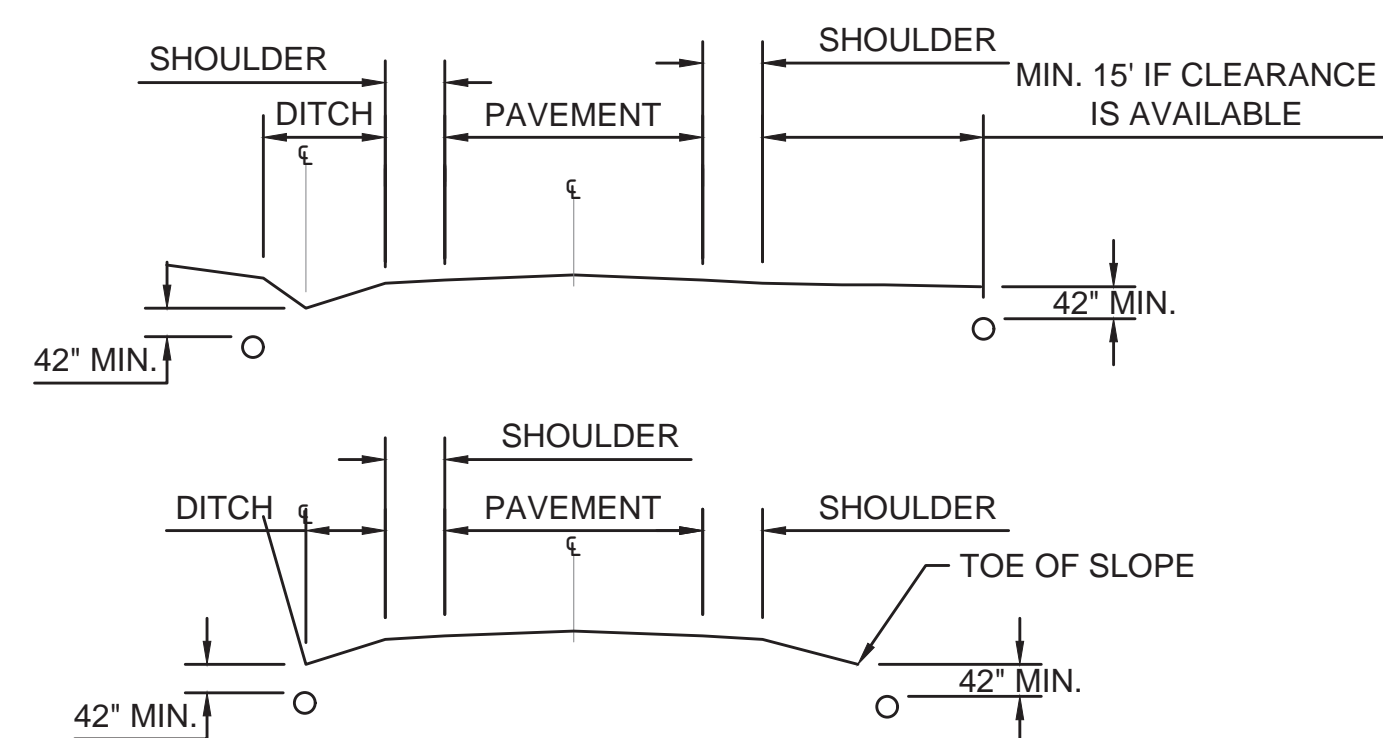


**SECTION**

**POTABLE WATER LINE & SEWER LINE CROSSING - DETAIL**  
NOT TO SCALE



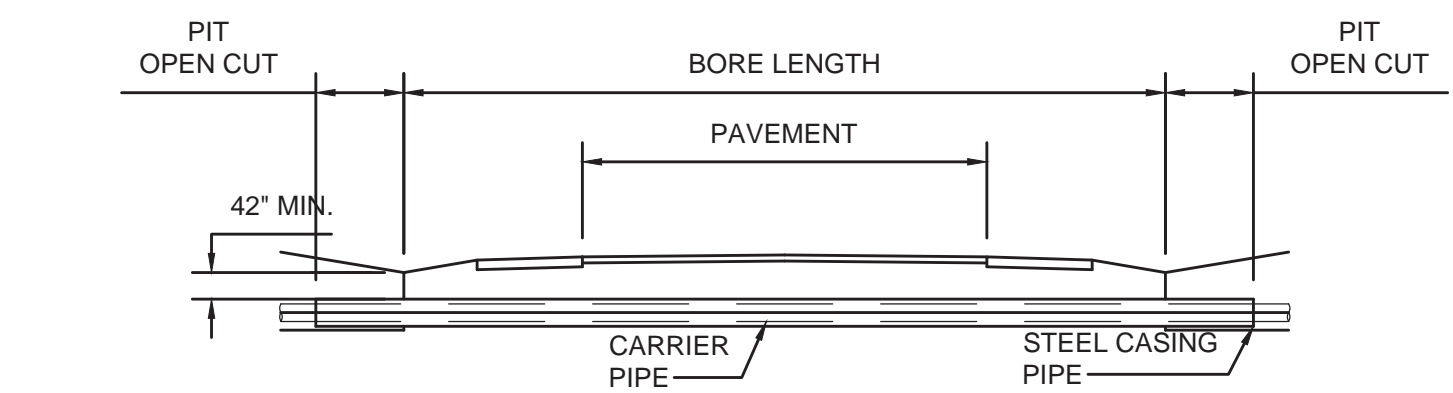
**OPEN CUT DRIVEWAY BACKFILL REQUIREMENTS**  
NOT TO SCALE



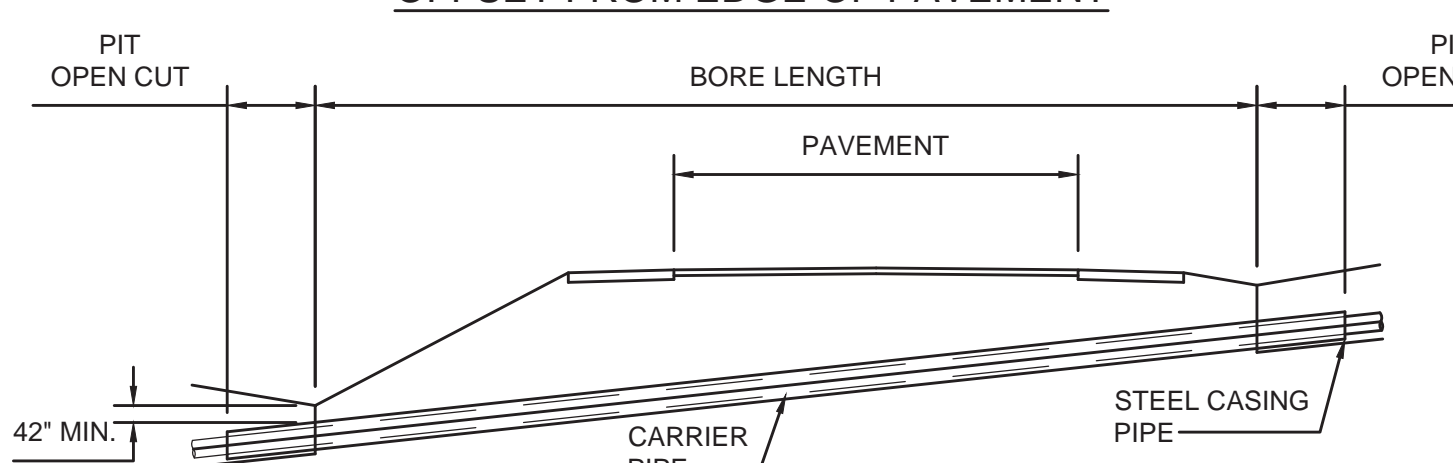
**UTILITY PIPELINE WITHIN KTC ROW - DETAIL**  
NOT TO SCALE

**NOTE:**

1. ALL JOINTS OF STEEL CASING SHALL BE SOLIDLY WELDED. END OF CASING SHALL BE SEALED AFTER LINE HAS BEEN INSTALLED AND TESTED.
2. MINIMUM DEPTHS MAY INCREASE IN AREAS WHICH REQUIRE MINIMUM SEPARATION WITH OTHER FACILITIES.
3. OPEN TRENCH NO CLOSER THAN THE DITCHLINE OR TOE OF FILL FROM THE EDGE OF THE PAVEMENT OR AS DIRECTED BY THE SPECIFICATIONS.
4. HIGHWAY CROSSINGS SHALL UTILIZE STEEL CASING PIPE. STEEL CASING PIPES WALL THICKNESS & DIAMETER PER SPECIFICATIONS. ALL BORED AND JACKED ENCASEMENT PIPE SHALL BE INSTALLED IN BORE HOLES NO LARGER THEN THE OUTSIDE DIA-METER OF THE ENCASEMENT PIPE.
5. SEE CASING SPACER DETAIL FOR PLACEMENT OF SPACER.

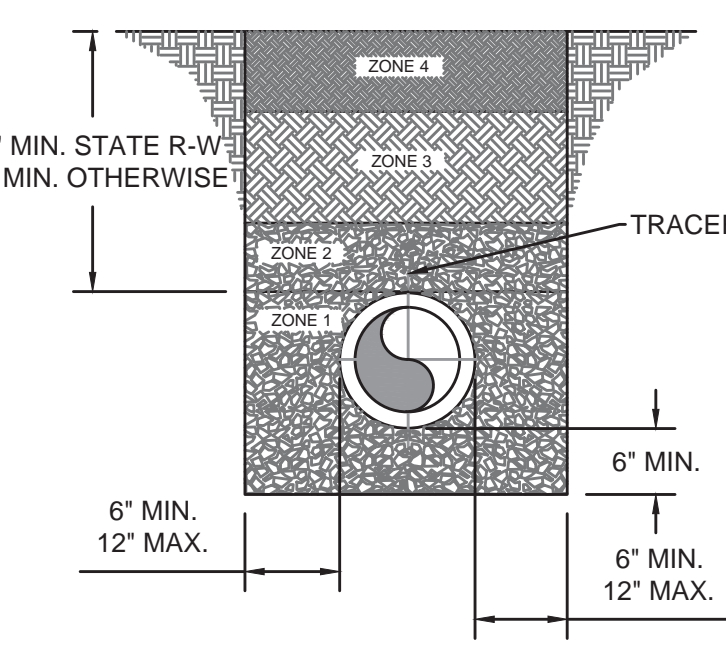


**OFFSET FROM EDGE OF PAVEMENT**



**FROM TOE OF SLOPE**

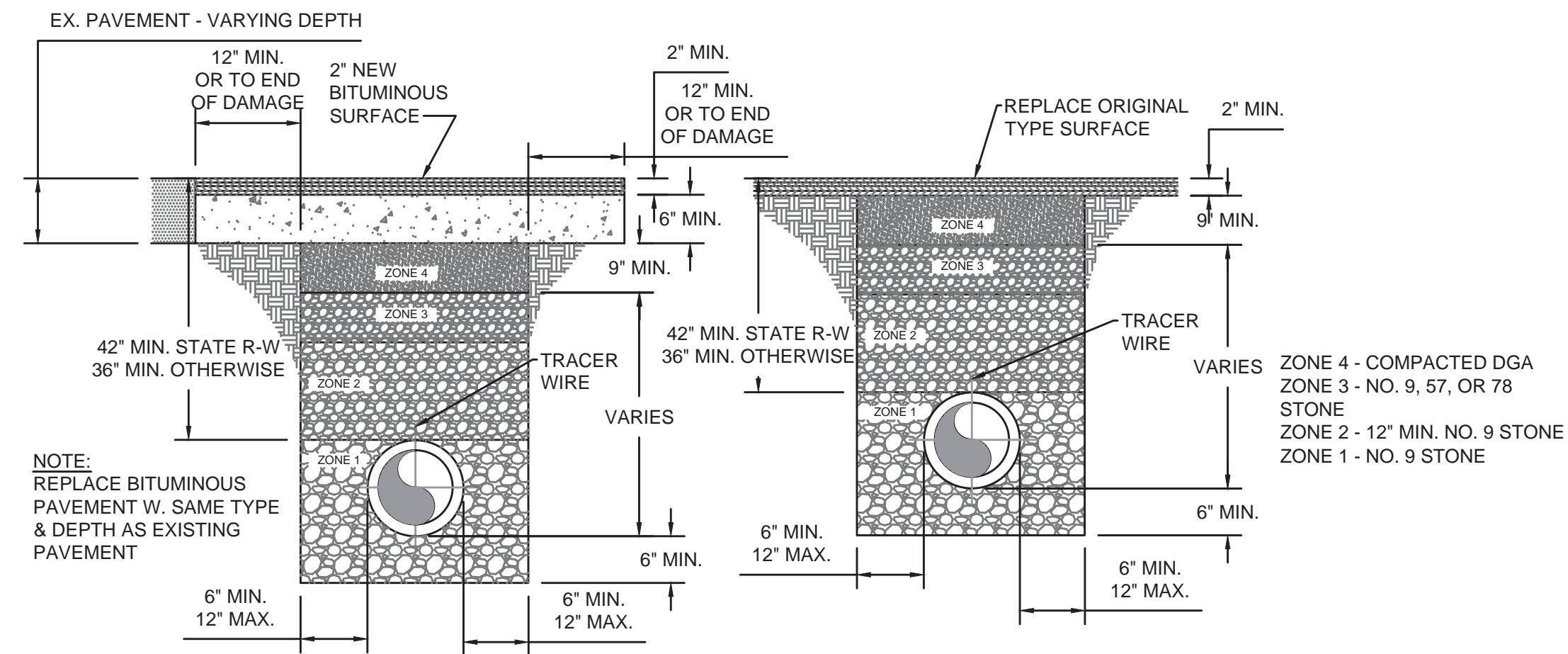
**DETAIL - KTC CROSSING**  
NOT TO SCALE



**PIPE LAID IN ROCK OR EARTH TRENCH**

**NOTE:**

1. COVER UP TO AND INCLUDING ZONE 4 SHALL BE ESTABLISHED BEFORE TRENCH EXCAVATION.
2. ZONE 4 - 6" MIN. CONSOLIDATION EARTH BACKFILL INCLUDING TOPSOIL. NO ROCK ALLOWED.
3. ZONE 3 - CONSOLIDATED SOIL, (NO ROCK GREATER THAN 6" DIAMETER) NO. 9, 57 OR 78 STONE
4. ZONE 2 - FROM THE SPRINGLINE OF THE PIPE TO A DISTANCE 12 INCHES ABOVE THE PIPE, THE CONTRACTOR SHALL USE THE SAME MATERIAL AS SPECIFIED FOR BEDDING. COMPACTION IS REQUIRED IN AREAS SUBJECT TO TRAFFIC.
5. ZONE 1 - BEDDING MATERIAL, IN EARTH EXCAVATION AREAS, SHALL BE CLEAN EARTH, FREE FROM ROCKS, DEBRIS OR OTHER FOREIGN MATERIAL. THE CONTRACTOR SHALL USE CRUSHED STONE, SAND OR GRAVEL AS BEDDING MATERIAL WHERE ROCK EXCAVATION IS ENCOUNTERED.



**ORIGINAL BITUMINOUS SURFACING OVER 2"**

**ORIGINAL BITUMINOUS SURFACING 2" OR LESS AND TRAFFIC BOUND MACADAM**

**DETAIL - BACKFILL**  
NOT TO SCALE

**RECORD DRAWINGS**

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BY: BLUEGRASS ENGINEERING, PLLC DATE: 05/2022

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2019 WATER SYSTEM IMPROVEMENTS  
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STANDARD DETAILS

**BLUEGRASS ENGINEERING, PLLC**  
222 East Main Street, Ste. 1 • Georgetown, KY 40324

PROJECT #: 18029  
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DRAWN BY: WCM  
CHECKED BY: PBR

