

2019 WATER SYSTEM IMPROVEMENTS

FOR THE NORTH MERCER WATER DISTRICT CONTRACT 1

MAY 2021

BOARD MEMBERS

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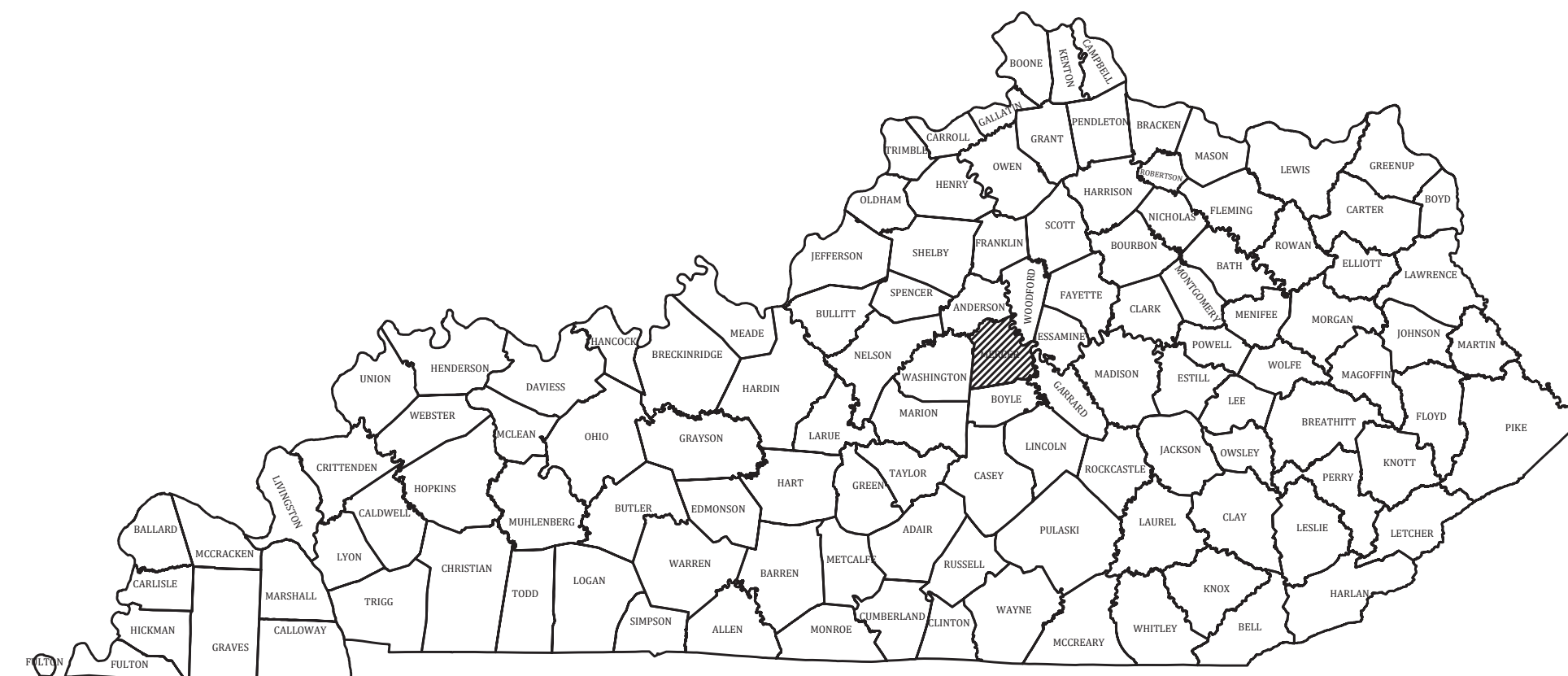


222 East Main Street, Ste. 1 • Georgetown, KY 40324

RECORD DRAWINGS

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BY: BLUEGRASS ENGINEERING, PLLC DATE: 01/2023



PROJECT NO. 18029

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B:\PROJECTS\North Mercer Water District\18029 - 2019 Water System Improvements\Drawings\Record Drawings\Contract 118029-01-01.dwg BE 3/08/23

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 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 SEED AT LEAST WITH A TEMPORARY SEED MIX IF FOR SOME REASON THE AREA CANNOT BE PERMANENTLY SEED 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 6 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 - 03	AERIAL PLAN - OLD LOUISVILLE ROAD
04 - 06	AERIAL PLAN - MCCOUNS FERRY ROAD DID NOT CONSTRUCT
07 - 08	AERIAL PLAN - KIRKWOOD & BONDVILLE ROADS
09 - 10	AERIAL PLAN - GARRIOTT LANE
11 - 15	AERIAL PLAN - MCAFEE LANE
16 - 19	AERIAL PLAN - CUMMINS FERRY PART (OFF OF MCAFEE LANE) DID NOT CONSTRUCT
20 - 22	AERIAL PLAN - CUMMINS FERRY PART (OFF OF US 127) DID NOT CONSTRUCT
23 - 25	STANDARD DETAILS

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
- EXISTING WATER METER
- NEW GATE VALVE & BOX
- EXISTING MANHOLE

EXISTING UTILITIES

Kentucky 811
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 811.ky.gov

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: 01/2023

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

2019 WATER SYSTEM IMPROVEMENTS
 CONTRACT 1
 PROJECT MAP, EXISTING UTILITIES,
 LEGEND & DRAWING INDEX

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

PROJECT #: 18029
 DATE: AUGUST 2020
 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\Record Drawings.dwg BE 307/23



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

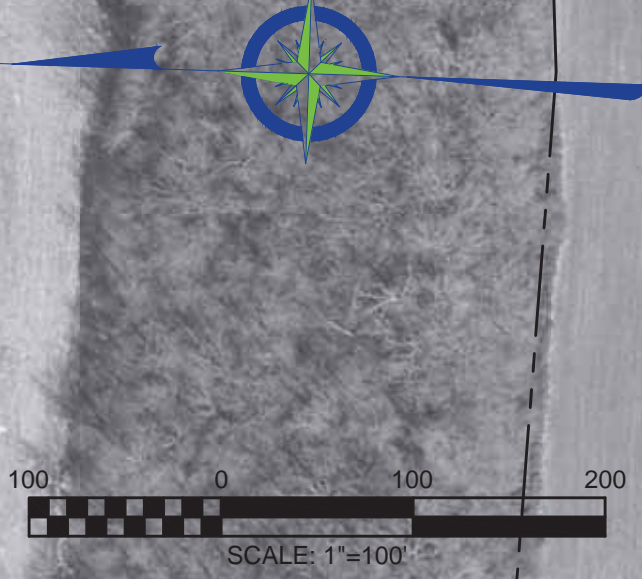
EXISTING METERS SHALL BE INSTALLED IN NEW SETTER WHERE APPLICABLE

PARCE L #	NAME	MAILING ADDRESS	CITY	STATE	ZIP	DEED BOOK / PAGE NUMBER
1	WILLIAM P. & KELSEY MASSIE	581 OLD LOUISVILLE RD	SALVISA	KY	40372	337/669
2	HAROLD DRISKELL	587 OLD LOUISVILLE RD	SALVISA	KY	40372	166/619
3	RONALD & CAITLIN JUDSON	595 OLD LOUISVILLE RD	SALVISA	KY	40372	356/001
4	ROBERT K. HUFFMAN	615 OLD LOUISVILLE RD	SALVISA	KY	40372	166/617
5	MICHAEL D. & PATRICIA A. VAN LANGDEN	1741 OREGON RD	SALVISA	KY	40372	359/201
6	BENNETT M. STENBERG	1341 WESTMINSTER WAY	MADISON	GA	30650	337/124
7	BLAKE EVERETT JONES	2354 CUMMINS FERRY RD	VERSAILLES	KY	40383-8502	168/002
8	TIMOTHY S. & LORI E. WELLS	127 MCCOUNS FERRY RD	SALVISA	KY	40372	352/497

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2019 WATER SYSTEM IMPROVEMENTS
CONTRACT 1

OLD LOUISVILLE ROAD



PROJECT #: 18029
DATE: AUGUST 2020
PROJECT MGR: LRS
DRAWN BY: WCM
CHECKED BY: PBR



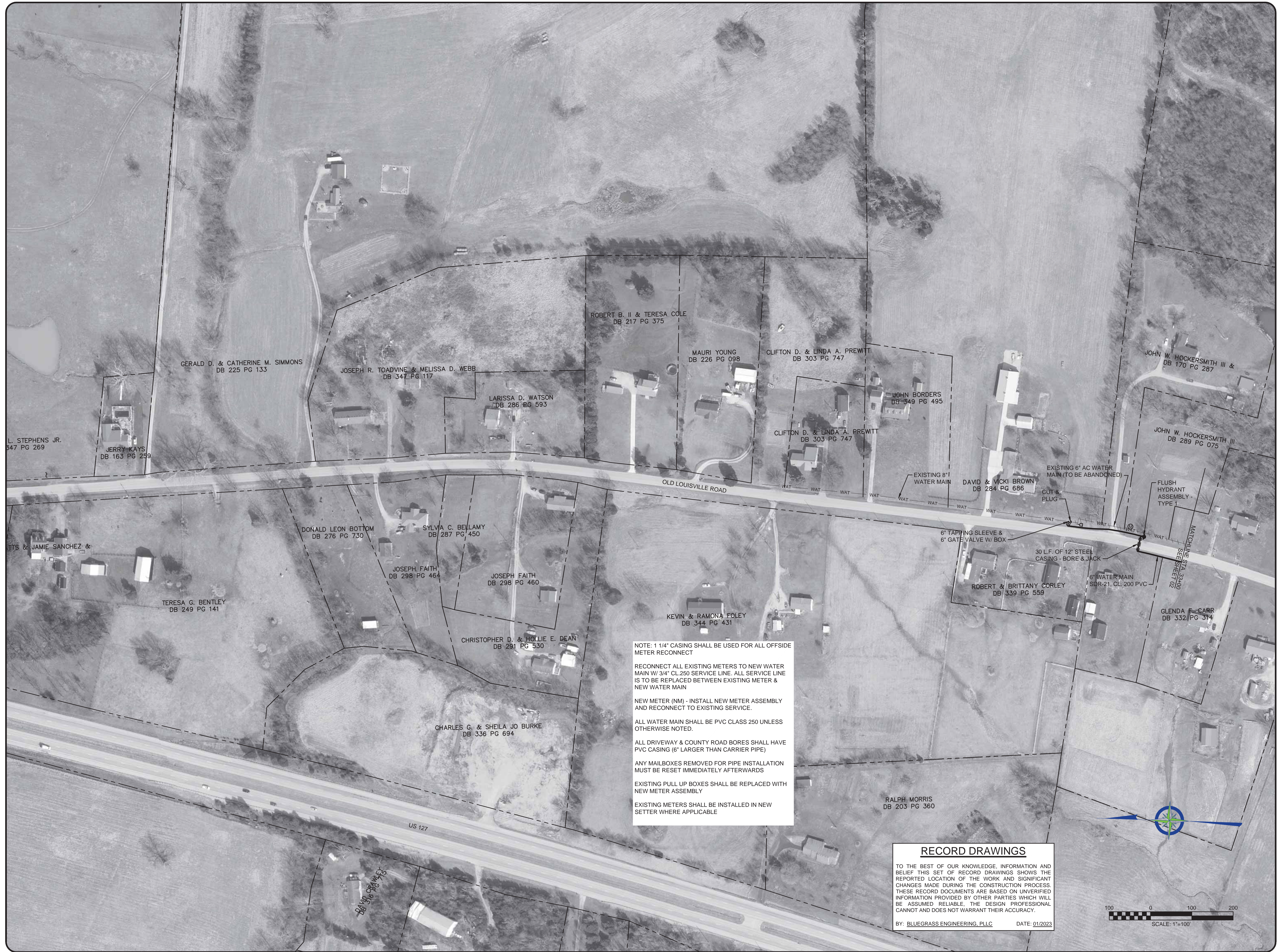
02

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B:\PROJECTS\North Mercer Water District\18029 - 2019 Water System Improvements\Drawings\Record Drawings\Contract 1\18029-02-03 OLD LOUISVILLE ROAD.dwg BE 307/23



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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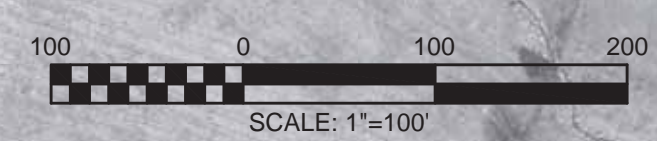
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 OLD LOUISVILLE ROAD

BLUEGRASS ENGINEERING, PLLC

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

PROJECT #: 18029
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 DRAWN BY: WCM
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03

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NOTE: CAUTION BURIED TELEPHONE CABLE

NOTE: WATER MAIN SHALL BE LAID ON EXISTING EASEMENT UNLESS OTHERWISE NOTED

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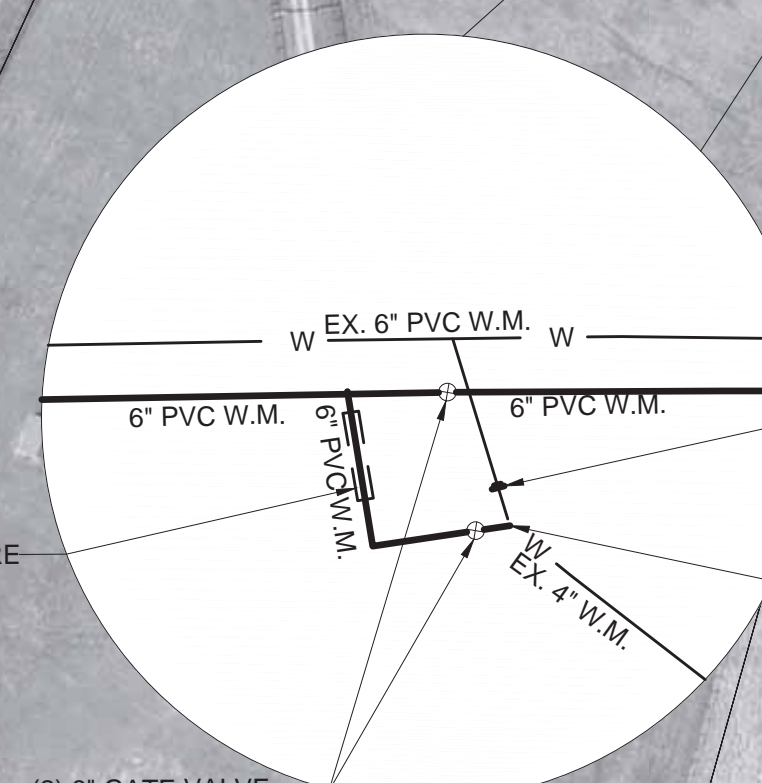
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CONSTRUCTION IN KYTC RIGHT-OF-WAY

- 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.

DID NOT CONSTRUCT



NOTE: CAUTION BURIED TELEPHONE CABLE

NOTE: WATER MAIN SHALL BE LAID ON EXISTING EASEMENT UNLESS OTHERWISE NOTED

1 1/2\"/>

RECONNECT ALL EXISTING METERS TO NEW WATER MAIN W/ 3\"/>

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

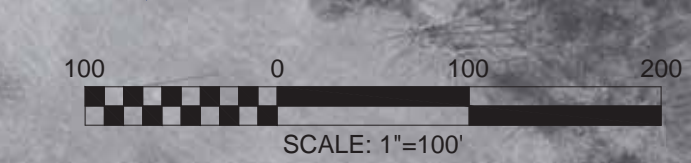
ALL WATER MAIN SHALL BE PVC CLASS 250 UNLESS OTHERWISE NOTED.

ALL DRIVEWAY & COUNTY ROAD BORES SHALL HAVE PVC CASING (6\"/>

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

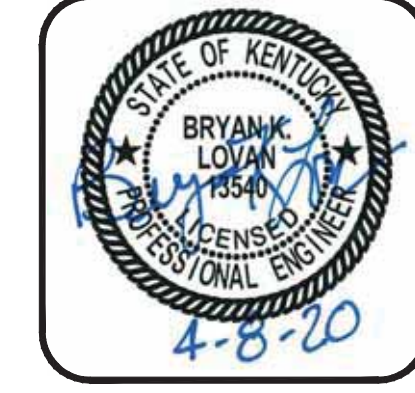


NO.	DATE	REVISIONS	BY
	5/2020	REVISIONS MADE PER KDOV COMMENTS	WCM

2019 WATER SYSTEM IMPROVEMENTS
CONTRACT 1
 MCCOUNS FERRY ROAD



PROJECT #: 18029
 DATE: AUGUST 2020
 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\MCCOUNS FERRY.dwg BE 3/08/23



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2019 WATER SYSTEM IMPROVEMENTS
CONTRACT 1
 MCCOUNS FERRY ROAD



PROJECT #: 18029
 DATE: AUGUST 2020
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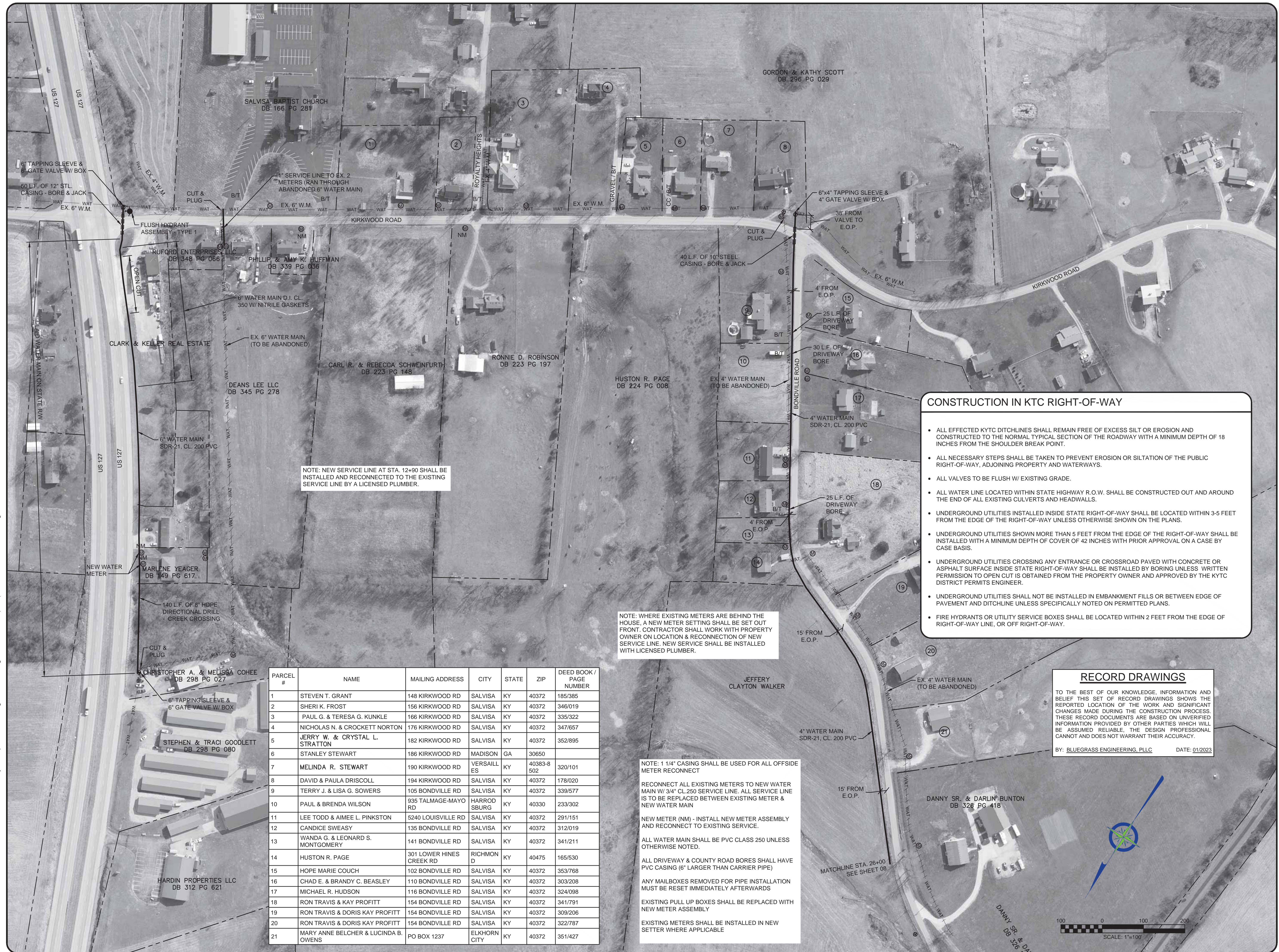


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B:\PROJECTS\North Mercer Water District\18029 - 2019 Water System Improvements\Drawings\Record Drawings\Contract 118029 (07-08) KIRKWOOD & BONNVILLE.dwg



NOTE: NEW SERVICE LINE AT STA. 12+90 SHALL BE INSTALLED AND RECONNECTED TO THE EXISTING SERVICE LINE BY A LICENSED PLUMBER.

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.

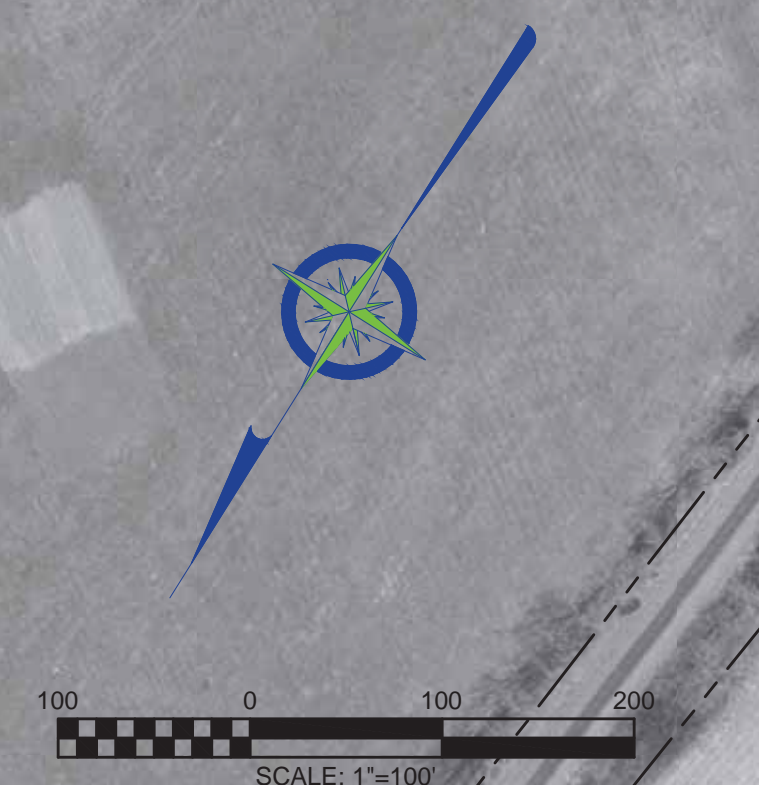
NOTE: 1 1/4" CASING SHALL BE USED FOR ALL OFFSIDE METER RECONNECT
 RECONNECT ALL EXISTING METERS TO NEW WATER MAIN W/ 3/4" CL.250 SERVICE LINE. ALL SERVICE LINE IS TO BE REPLACED BETWEEN EXISTING METER & NEW WATER MAIN
 NEW METER (NM) - INSTALL NEW METER ASSEMBLY AND RECONNECT TO EXISTING SERVICE.
 ALL 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

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PARCEL #	NAME	MAILING ADDRESS	CITY	STATE	ZIP	DEED BOOK / PAGE NUMBER
1	STEVEN T. GRANT	148 KIRKWOOD RD	SALVISA	KY	40372	185/385
2	SHERI K. FROST	156 KIRKWOOD RD	SALVISA	KY	40372	346/019
3	PAUL G. & TERESA G. KUNKLE	166 KIRKWOOD RD	SALVISA	KY	40372	335/322
4	NICHOLAS N. & CROCKETT NORTON	176 KIRKWOOD RD	SALVISA	KY	40372	347/657
5	JERRY W. & CRYSTAL L. STRATTON	182 KIRKWOOD RD	SALVISA	KY	40372	352/895
6	STANLEY STEWART	186 KIRKWOOD RD	MADISON	GA	30650	
7	MELINDA R. STEWART	190 KIRKWOOD RD	VERSAILL ES	KY	40383-8 502	320/101
8	DAVID & PAULA DRISCOLL	194 KIRKWOOD RD	SALVISA	KY	40372	178/020
9	TERRY J. & LISA G. SOWERS	105 BONNVILLE RD	SALVISA	KY	40372	339/577
10	PAUL & BRENDA WILSON	935 TALMAGE-MAYO RD	HARROD SBURG	KY	40330	233/302
11	LEE TODD & AIMEE L. PINKSTON	5240 LOUISVILLE RD	SALVISA	KY	40372	291/151
12	CANDICE SWEASY	135 BONNVILLE RD	SALVISA	KY	40372	312/019
13	WANDA G. & LEONARD S. MONTGOMERY	141 BONNVILLE RD	SALVISA	KY	40372	341/211
14	HUSTON R. PAGE	301 LOWER HINES CREEK RD	RICHMOND	KY	40475	165/530
15	HOPE MARIE COUCH	102 BONNVILLE RD	SALVISA	KY	40372	353/768
16	CHAD E. & BRANDY C. BEASLEY	110 BONNVILLE RD	SALVISA	KY	40372	303/208
17	MICHAEL R. HUDSON	116 BONNVILLE RD	SALVISA	KY	40372	324/098
18	RON TRAVIS & KAY PROFITT	154 BONNVILLE RD	SALVISA	KY	40372	341/791
19	RON TRAVIS & DORIS KAY PROFITT	154 BONNVILLE RD	SALVISA	KY	40372	309/206
20	RON TRAVIS & DORIS KAY PROFITT	154 BONNVILLE RD	SALVISA	KY	40372	322/787
21	MARY ANNE BELCHER & LUCINDA B. OWENS	PO BOX 1237	ELKHORN CITY	KY	40372	351/427

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: 01/2023



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

**2019 WATER SYSTEM IMPROVEMENTS
 CONTRACT 1**
 BONNVILLE ROAD & KIRKWOOD ROAD



PROJECT #: 18029
 DATE: AUGUST 2020
 PROJECT MGR: LRS
 DRAWN BY: WCM
 CHECKED BY: PBR



07

BID SET

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BE 30723

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NOTE: CONTRACTOR SHALL NOTIFY THE OWNER/ENGINEER A MINIMUM OF 30 DAYS PRIOR TO ANY WORK STARTING ON THE RAILROAD BORE. THE ENGINEER WILL NOTIFY NORFOLK SOUTHERN TO MEET THE REQUIREMENTS OF THE PERMIT. NO WORK SHALL BEGIN ON THE RAILROAD BORE UNLESS AUTHORIZED RAILROAD PERSONNEL ARE PRESENT. SEE SPECS FOR PLAN VIEW & CROSS SECTION OF CROSSING.

NOTE: 1 1/2" CASING SHALL BE USED FOR ALL OFFSIDE METER RECONNECT

RECONNECT ALL EXISTING METERS TO NEW WATER MAIN W/ 3" 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.

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ANY MAILBOXES REMOVED FOR PIPE INSTALLATION MUST BE RESET IMMEDIATELY AFTERWARDS

EXISTING PULL UP BOXES SHALL BE REPLACED WITH NEW METER ASSEMBLY

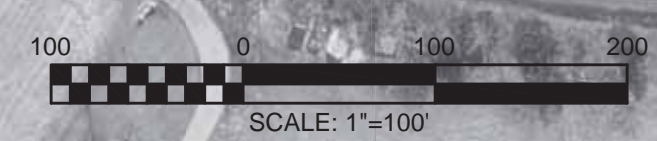
EXISTING METERS SHALL BE INSTALLED IN NEW SETTER WHERE APPLICABLE

NOTE: NEW SERVICE LINE INSTALLED IN EXISTING WATER MAIN FOR EXISTING METERS

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BY: BLUEGRASS ENGINEERING, PLLC DATE: 01/2023



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2019 WATER SYSTEM IMPROVEMENTS
CONTRACT 1

BONDVILLE ROAD



PROJECT #: 18029
DATE: AUGUST 2020
PROJECT MGR: LRS
DRAWN BY: WCM
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08

BID SET

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B:\PROJECTS\North Mercer Water District\18029 - 2019 Water System Improvements\Drawings\Record Drawings\Contract 1\18029-09-10\GARRIOTT LANE.dwg BE 3/07/23



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

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2019 WATER SYSTEM IMPROVEMENTS
CONTRACT 1
GARRIOTT LANE



PROJECT #: 18029
DATE: AUGUST 2020
PROJECT MGR: LRS
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09

BID SET

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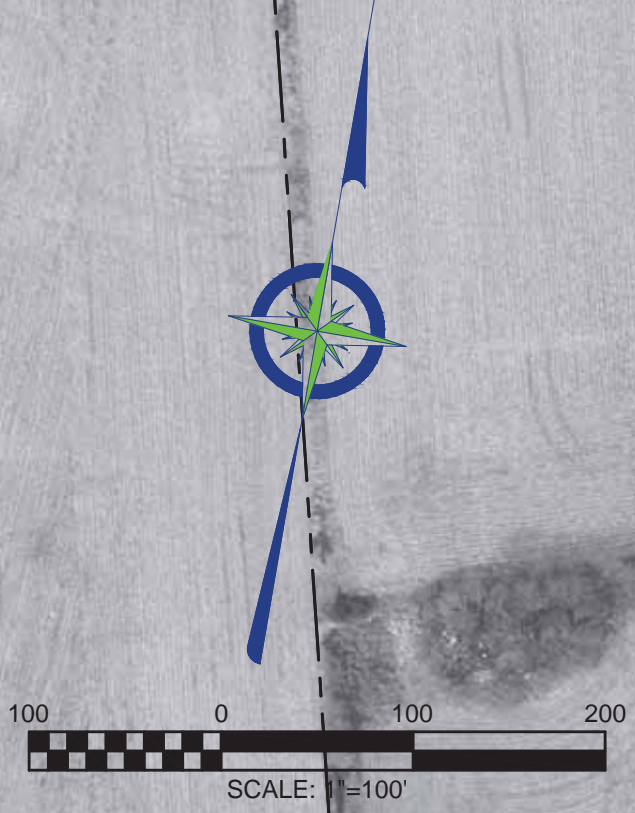
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2019 WATER SYSTEM IMPROVEMENTS
CONTRACT 1

GARRIOTT LANE



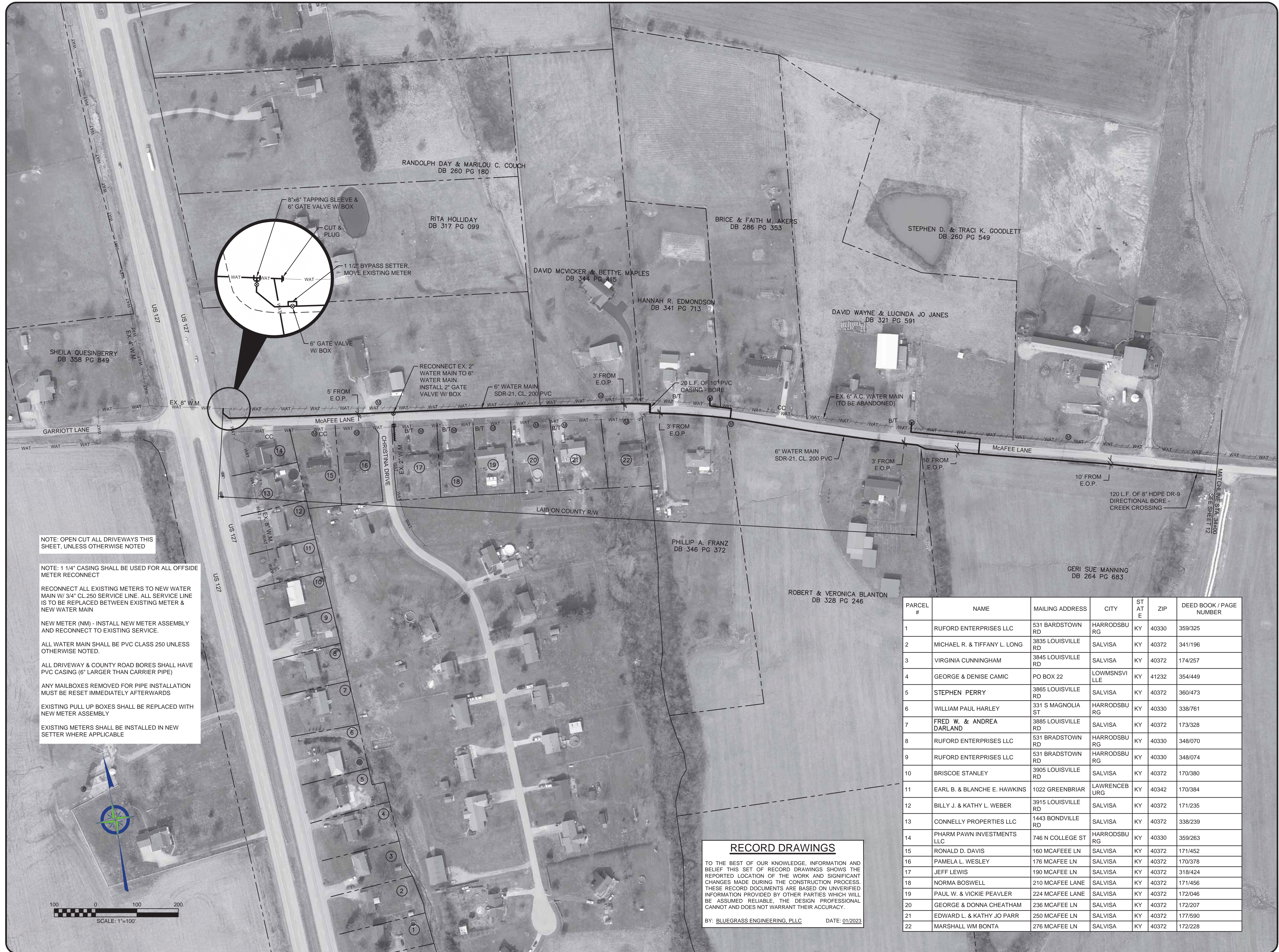
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B:\PROJECTS\North Mercer Water District\18029 - 2019 Water System Improvements\Drawings\Record Drawings\McAfee Lane.dwg BE 3/07/23



NOTE: OPEN CUT ALL DRIVEWAYS THIS SHEET, UNLESS OTHERWISE NOTED

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PARCEL #	NAME	MAILING ADDRESS	CITY	ST A T E	ZIP	DEED BOOK / PAGE NUMBER
1	RUFORD ENTERPRISES LLC	531 BARDSTOWN RD	HARRODSBU	KY	40330	359/325
2	MICHAEL R. & TIFFANY L. LONG	3835 LOUISVILLE RD	SALVISA	KY	40372	341/196
3	VIRGINIA CUNNINGHAM	3845 LOUISVILLE RD	SALVISA	KY	40372	174/257
4	GEORGE & DENISE CAMIC	PO BOX 22	LOWMSNSVI LLE	KY	41232	354/449
5	STEPHEN PERRY	3865 LOUISVILLE RD	SALVISA	KY	40372	360/473
6	WILLIAM PAUL HARLEY	331 S MAGNOLIA ST	HARRODSBU	KY	40330	338/761
7	FRED W. & ANDREA DARLAND	3885 LOUISVILLE RD	SALVISA	KY	40372	173/328
8	RUFORD ENTERPRISES LLC	531 BRADSTOWN RD	HARRODSBU	KY	40330	348/070
9	RUFORD ENTERPRISES LLC	531 BRADSTOWN RD	HARRODSBU	KY	40330	348/074
10	BRISCOE STANLEY	3905 LOUISVILLE RD	SALVISA	KY	40372	170/380
11	EARL B. & BLANCHE E. HAWKINS	1022 GREENBRIAR	LAWRENCEB URG	KY	40342	170/384
12	BILLY J. & KATHY L. WEBER	1443 BONDVILLE RD	SALVISA	KY	40372	171/235
13	CONNELLY PROPERTIES LLC	1443 BONDVILLE RD	SALVISA	KY	40372	338/239
14	PHARM PAWN INVESTMENTS LLC	746 N COLLEGE ST	HARRODSBU	KY	40330	359/263
15	RONALD D. DAVIS	160 MCAFEE LN	SALVISA	KY	40372	171/452
16	PAMELA L. WESLEY	176 MCAFEE LN	SALVISA	KY	40372	170/378
17	JEFF LEWIS	190 MCAFEE LN	SALVISA	KY	40372	318/424
18	NORMA BOSWELL	210 MCAFEE LANE	SALVISA	KY	40372	171/456
19	PAUL W. & VICKIE PEAVLER	224 MCAFEE LANE	SALVISA	KY	40372	172/046
20	GEORGE & DONNA CHEATHAM	236 MCAFEE LN	SALVISA	KY	40372	172/207
21	EDWARD L. & KATHY JO PARR	250 MCAFEE LN	SALVISA	KY	40372	177/590
22	MARSHALL WM BONTA	276 MCAFEE LN	SALVISA	KY	40372	172/228

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2019 WATER SYSTEM IMPROVEMENTS
 CONTRACT 1
 MCAFEE LANE



PROJECT #: 18029
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B:\PROJECTS\North Mercer Water District\18029 - 2019 Water System Improvements\Drawings\Record Drawings\McAfee Lane.dwg BE 3/07/23



RECORD DRAWINGS
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 BY: BLUEGRASS ENGINEERING, PLLC DATE: 01/2023

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NOTE: 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.

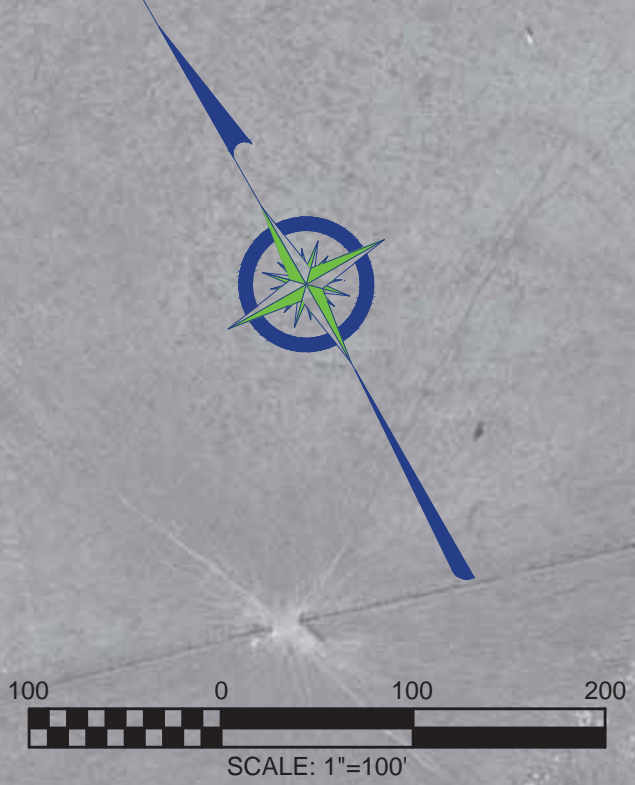
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EXISTING METERS SHALL BE INSTALLED IN NEW SETTER WHERE APPLICABLE



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

2019 WATER SYSTEM IMPROVEMENTS
 CONTRACT 1
 MCAFEE LANE

PROJECT #: 18029
 DATE: AUGUST 2020
 PROJECT MGR: LRS
 DRAWN BY: WCM
 CHECKED BY: PBR



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 CONTRACT 1
 MCAFFEE LANE

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

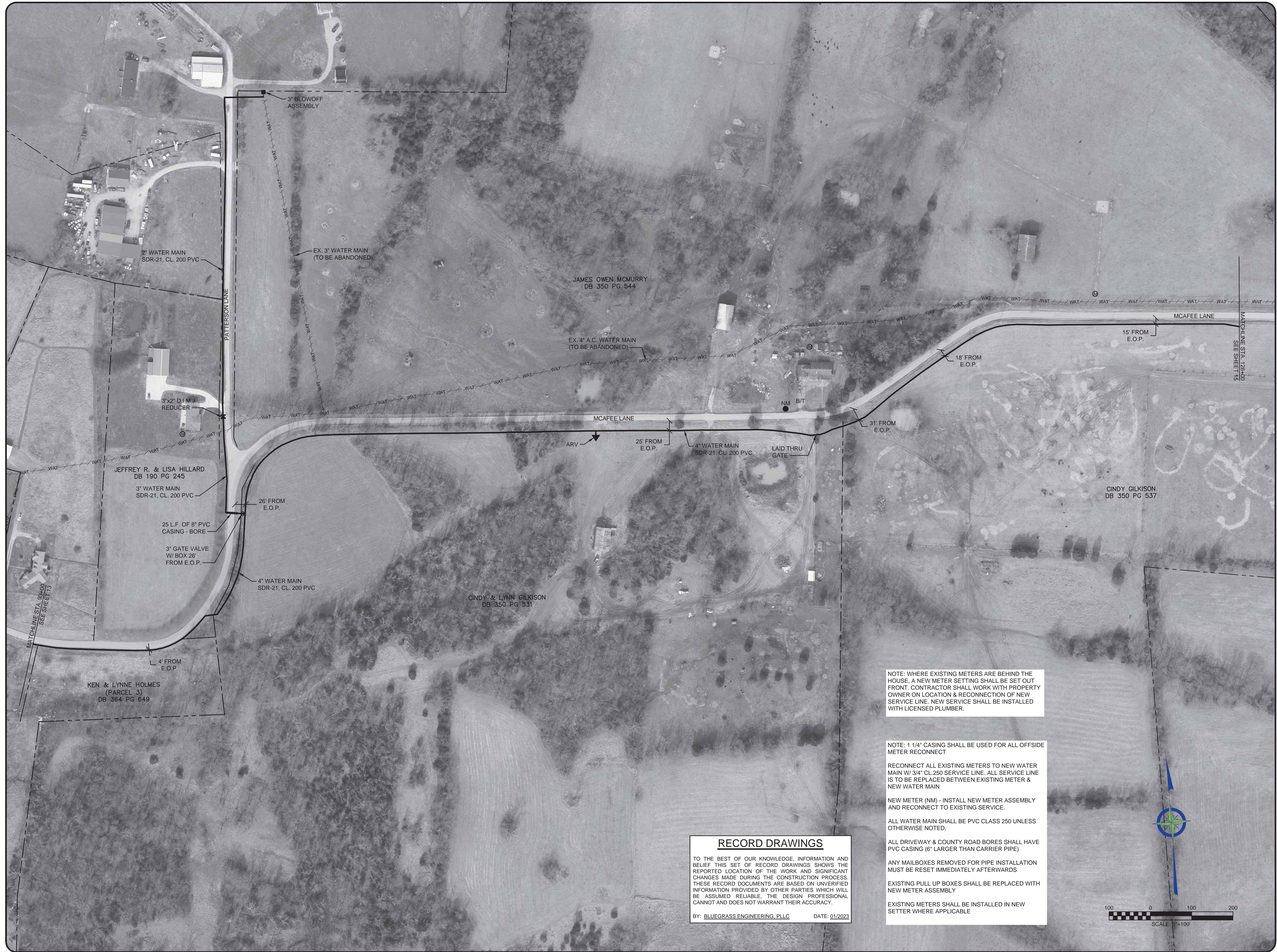
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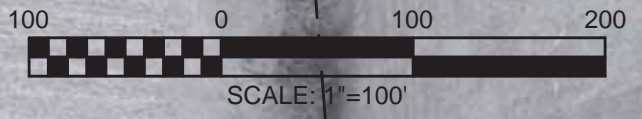
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2019 WATER SYSTEM IMPROVEMENTS
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222 East Main Street, Ste. 1 • Georgetown, KY 40324

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- ### CONSTRUCTION IN KTC RIGHT-OF-WAY
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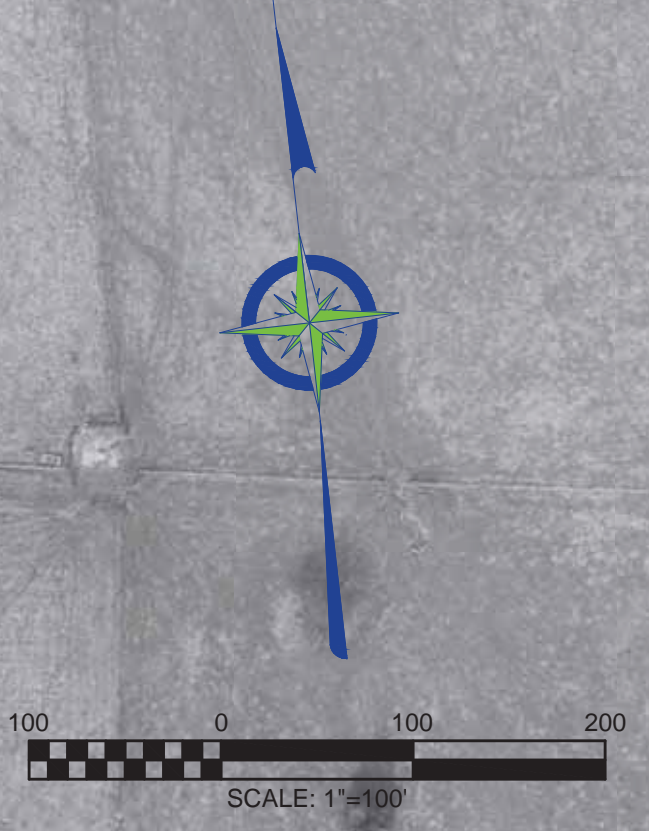
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2019 WATER SYSTEM IMPROVEMENTS
CONTRACT 1

MC A F E E L A N E



PROJECT #: 18029
DATE: AUGUST 2020
PROJECT MGR: LRS
DRAWN BY: WCM
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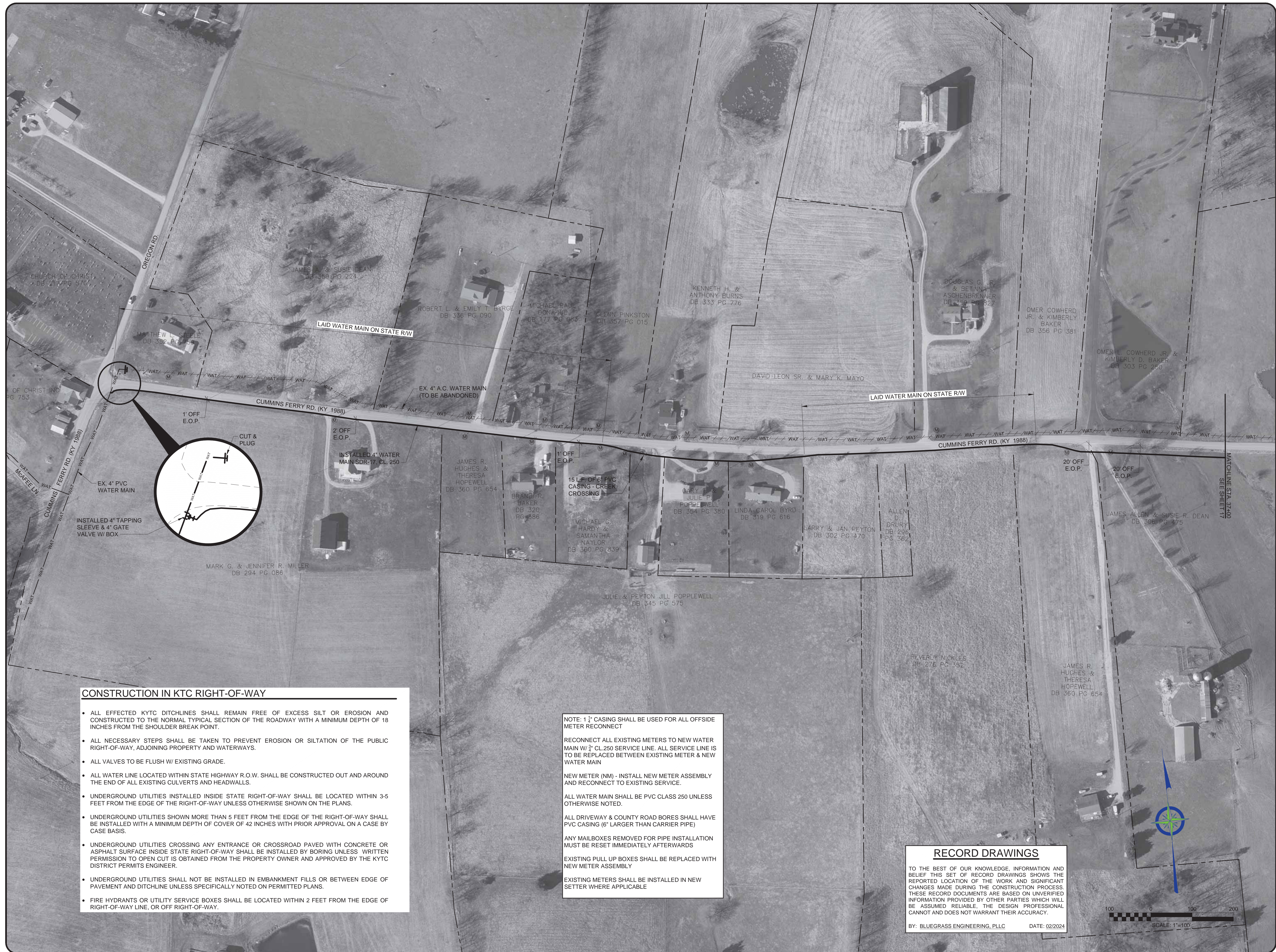


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B:\PROJECTS\North Mercer Water District\18029 - 2019 Water System Improvements\Drawings\Record Drawings\Contract 118029-16-19 CUMMINS FERRY PART B.dwg



CONSTRUCTION IN KYTC RIGHT-OF-WAY

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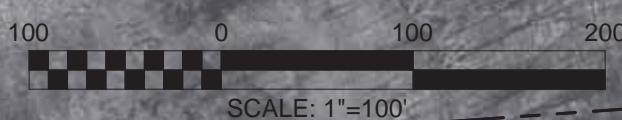
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BY: BLUEGRASS ENGINEERING, PLLC DATE: 02/2024



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**2019 WATER SYSTEM IMPROVEMENTS
CONTRACT 1**
CUMMINS FERRY ROAD - PART "B"



PROJECT #: 18029
DATE: AUGUST 2020
PROJECT MGR: LRS
DRAWN BY: WCM
CHECKED BY: PBR



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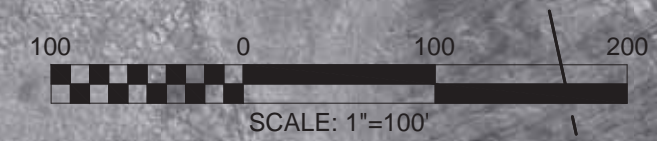
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2019 WATER SYSTEM IMPROVEMENTS
CONTRACT 1

CUMMINS FERRY ROAD - PART "B"



PROJECT #: 18029
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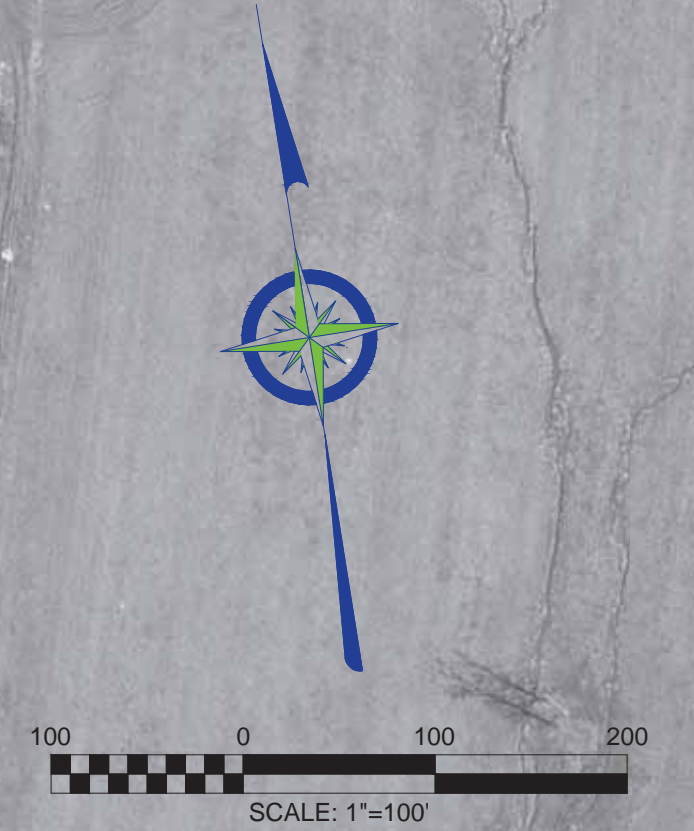
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2019 WATER SYSTEM IMPROVEMENTS
CONTRACT 1

CUMMINS FERRY ROAD - PART "B"



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DID NOT CONSTRUCT

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

2019 WATER SYSTEM IMPROVEMENTS
CONTRACT 1
CUMMINS FERRY ROAD - PART "B"



PROJECT #: 18029
DATE: AUGUST 2020
PROJECT MGR: LRS
DRAWN BY: WCM
CHECKED BY: PBR



NOTE: 1 1/2" CASING SHALL BE USED FOR ALL OFFSIDE METER RECONNECT

RECONNECT ALL EXISTING METERS TO NEW WATER MAIN W/ 2" CL250 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.

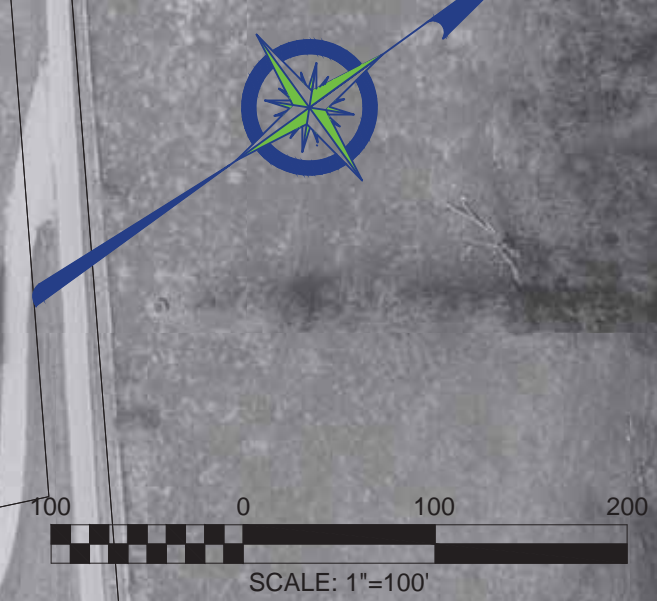
ALL WATER MAIN SHALL BE PVC CLASS 250 UNLESS OTHERWISE NOTED.

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



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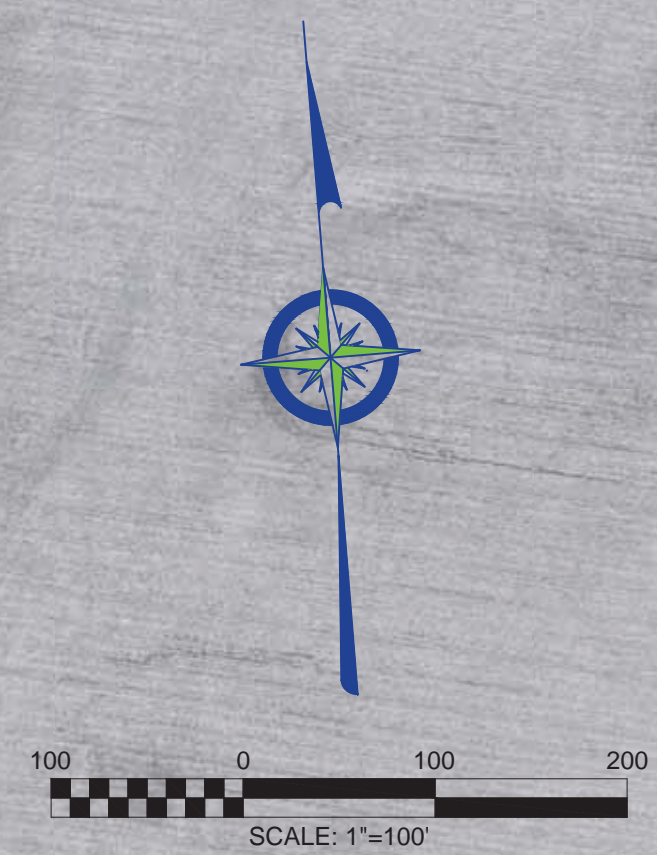
CONSTRUCTION IN KTC RIGHT-OF-WAY

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PARCEL #	NAME	MAILING ADDRESS	CITY	STATE	ZIP	DEED BOOK / PAGE NUMBER
1	TIMOTHY L. & PATRICIA LEWIS	414 HARVEY PIKE	HARRODS BURG	KY	40330	172/260
2	NEW PROVIDENCE CHURCH INC	1611 MUNDYS LANDING RD	HARRODS BURG	KY	40330	312/300
3	BARRY S. & KIMBERLY STEELE	PO BOX 68	SALVISA	KY	40372	188/508
4	MARK SR & TAMMY LEE LAPALME	125 CUMMINS FERRY RD	SALVISA	KY	40372	334/355
5	LELA CROSSFIELD	125 PROVIDENCE RD	HARRODS BURG	KY	40330	330/178
6	JOHN W. & MARY JO ROGERS	135 CUMMINS FERRY RD	SALVISA	KY	40372	177/216
7	JEAN M. LUCAS	134 CUMMINS FERRY RD	SALVISA	KY	40372	188/510
8	LARRY & STEVEN PEYTON	555 UNITY RD	HARRODS BURG	KY	40330	306/687
9	R. D. & EUNICE PEYTON	161 CUMMINS FERRY RD	SALVISA	KY	40372	231/443
10	CLIFFORD J. & JENNIFER J. LONG	179 CUMMINS FERRY RD	SALVISA	KY	40372	168/119
11	CODY LEE HARRIS & TARA D. KING	180 CUMMINS FERRY RD	SALVISA	KY	40372	347/547
12	NAOMI TRUST RANDELL	185 CUMMINS FERRY RD	SALVISA	KY	40372	239/271
13	RICK & TIMALYN MOBERLY	1649 CUMMINS FERRY RD	SALVISA	KY	40372	358/359
14	BOBBY E. & PATSY ROSS	188 CUMMINS FERRY RD	SALVISA	KY	40372	172/282
15	DAVID & JEANEANE B. BALL	210 CUMMINS FERRY RD	SALVISA	KY	40372	188/508
16	WILLIAM KEITH & SANDRA KAYE RICHARDSON	220 CUMMINS FERRY RD	SALVISA	KY	40372	257/004
17	KATHERINE L. BARKER	236 CUMMINS FERRY RD	SALVISA	KY	40372	188/508



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NO.	DATE	REVISIONS	BY
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2019 WATER SYSTEM IMPROVEMENTS
 CONTRACT 1
 CUMMINS FERRY ROAD - PART "A"



PROJECT #: 18029
 DATE: AUGUST 2020
 PROJECT MGR: LRS
 DRAWN BY: WCM
 CHECKED BY: PBR



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PARCEL #	NAME	MAILING ADDRESS	CITY	STATE	ZIP	DEED BOOK / PAGE NUMBER
18	KEVIN LEE & TIFFANY BETH EGGERS	265 CUMMINS FERRY RD	SALVISA	KY	40372	356/325
19	MICHAEL W. CHILTON	3016 TALMAGE-MAYO RD	SALVISA	KY	40372	302/215
20	DONALD GREEN	281 CUMMINS FERRY RD	SALVISA	KY	40372	N/A
21	REBECCA L. BROWN & LEIGH A. MILLER & LETHA L. BRADSHAW	519 MCCOUNS FERRY RD	SALVISA	KY	40372	354/103
22	DENNIS R. & MELISSA ANN ROY	1427 HOPEWELL RD	HARRODS BURG	KY	40330	341/733

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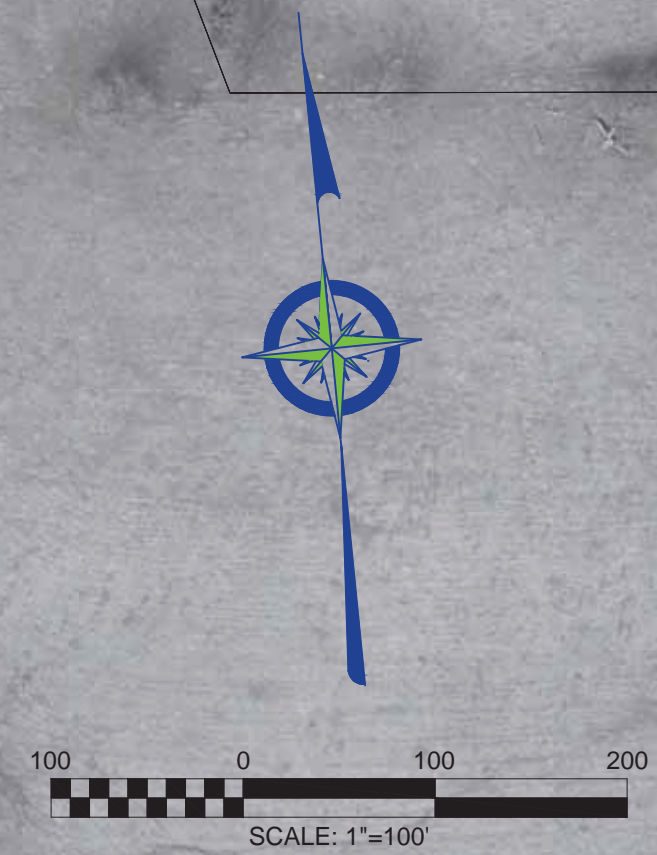
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2019 WATER SYSTEM IMPROVEMENTS
CONTRACT 1

CUMMINS FERRY ROAD - PART "A"



PROJECT #: 18029
DATE: AUGUST 2020
PROJECT MGR: LRS
DRAWN BY: WCM
CHECKED BY: PBR



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DID NOT CONSTRUCT

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2019 WATER SYSTEM IMPROVEMENTS
CONTRACT 1
CUMMINS FERRY ROAD - PART "A"



PROJECT #: 18029
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MATCHLINE STA. 59+00 (SEE SHEET 2)

EX. 3" W.M. (TO BE ABANDONED)

4" PVC CL. 250

CUT & PLUG

STA. 59+64 BLOW OFF ASSEMBLY

RECONNECT EXISTING 3" W.M. TO NEW 4" WITH 3" GATE VALVE

DALE & DAVID CINNAMON DB 134 PG 125

EDWARD BEHN DB 268 PG 194

JAMES B. JR. & KIMBERLY STINNETT DB 231 PG 362

JAMES B. & KIMBERLY A. STINNETT DB 191 PG 710

DAVID P. & TERESA CINNAMON DB 314 PG 150

CUMMINS FERRY ROAD (KY 1988)

UNITY PIKE

3" EX. W.M.

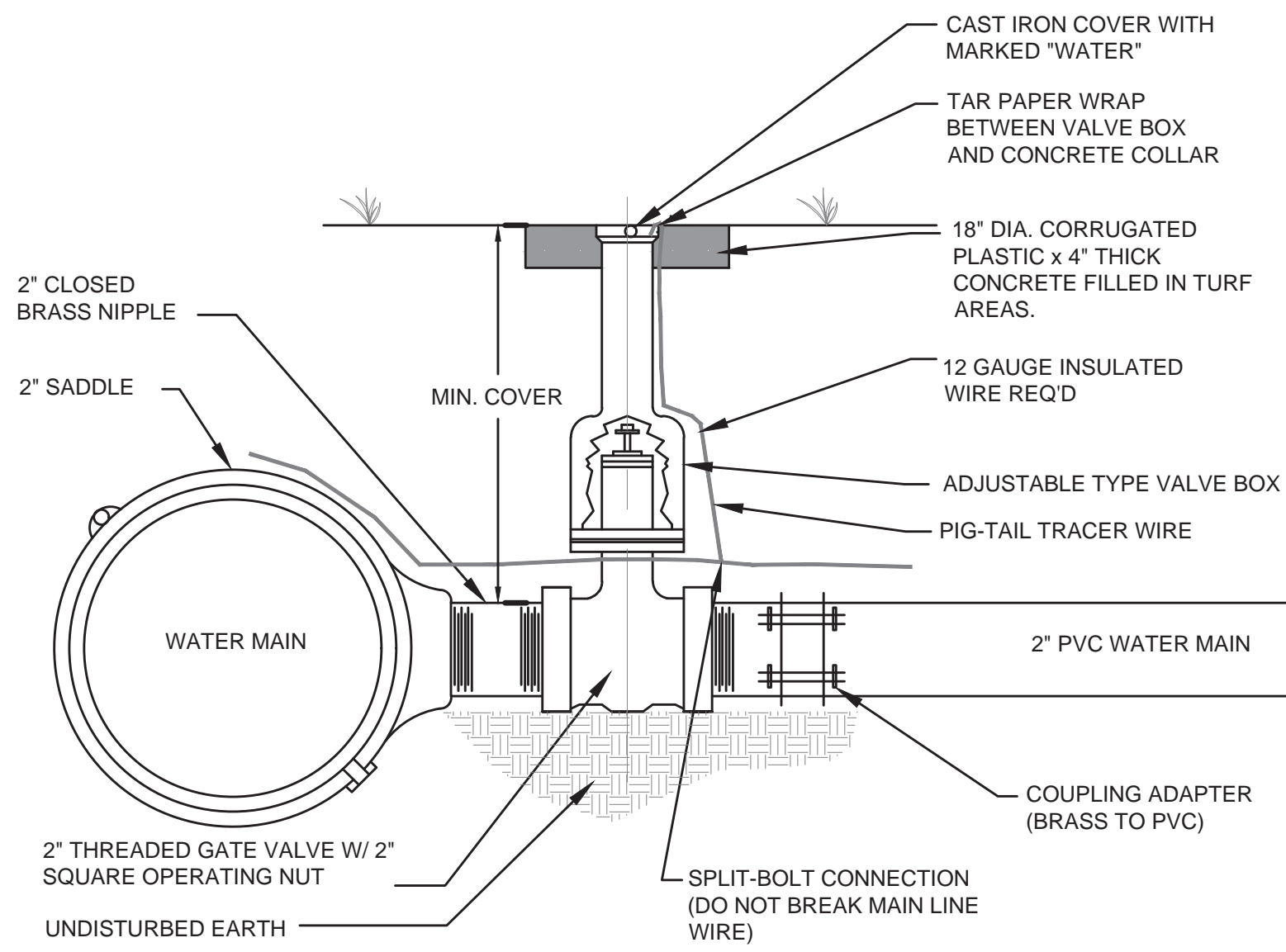
2" EX. W.M.

NOTE: NEW GATE VALVE AT CONNECTION TO REMAINED CLOSED

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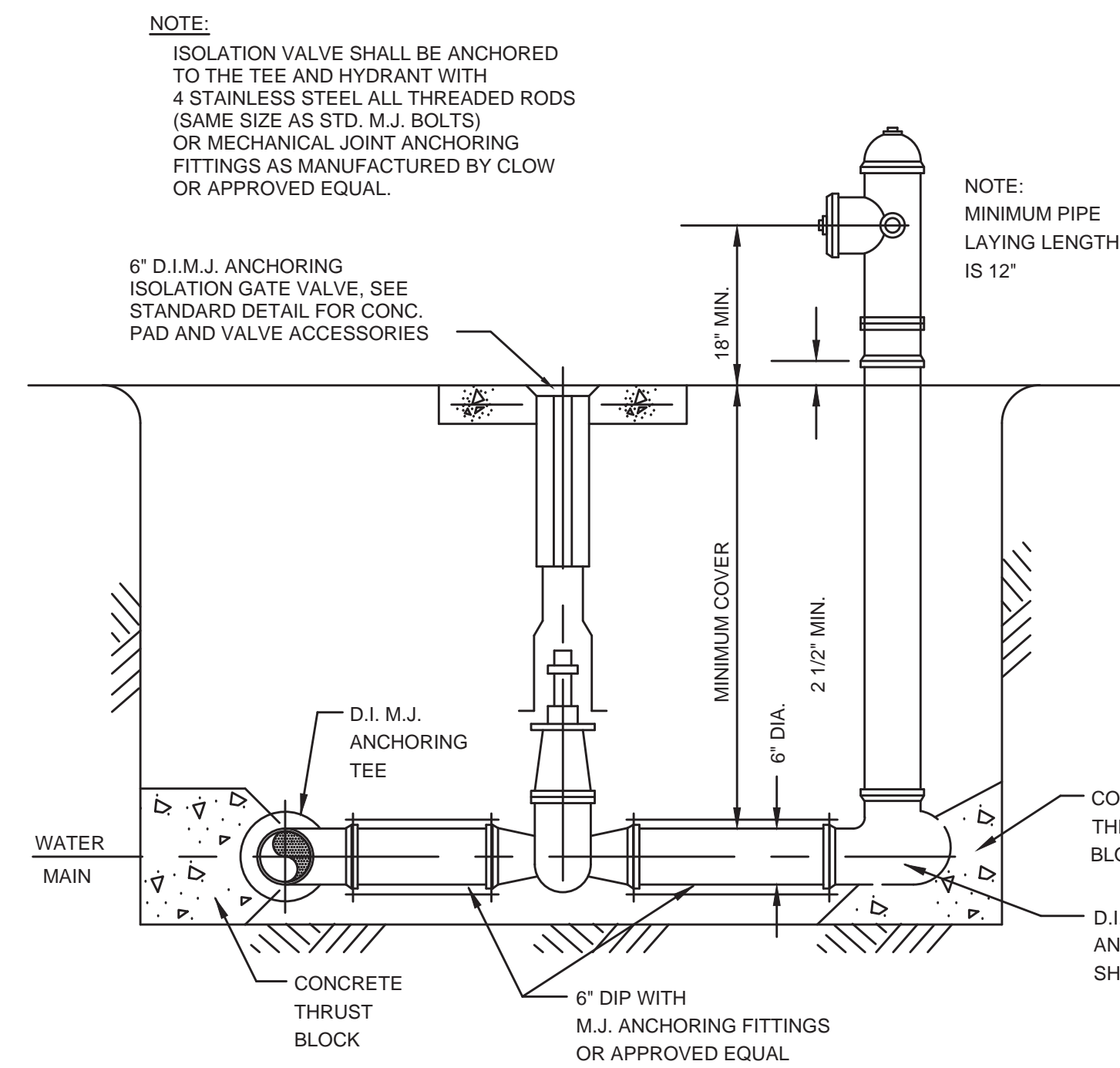
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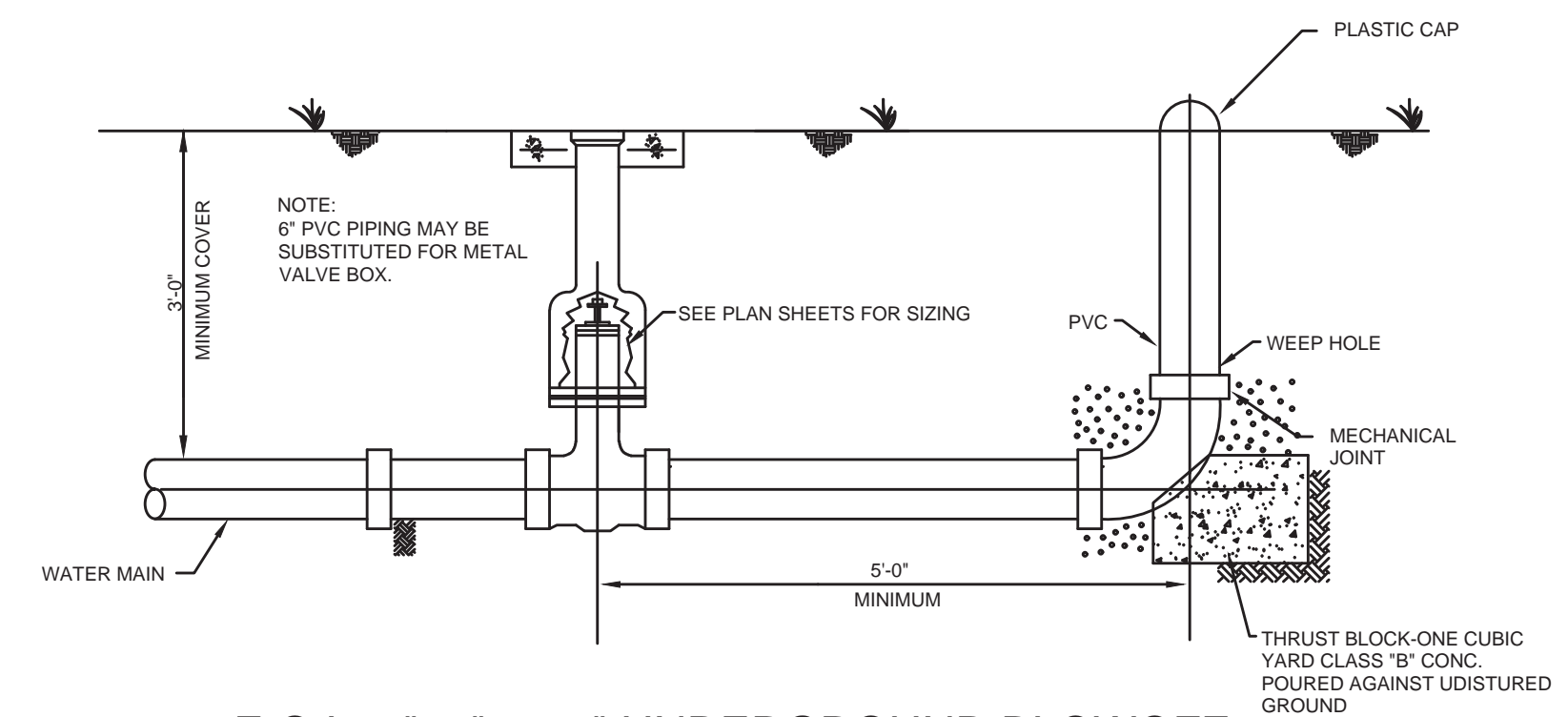
CONNECTION FOR 2" WATER MAINS

NOT TO SCALE



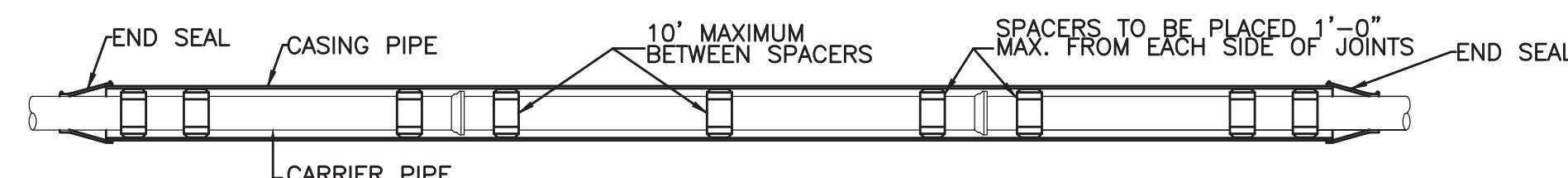
FLUSHING HYDRANT ASSEMBLY

NOT TO SCALE

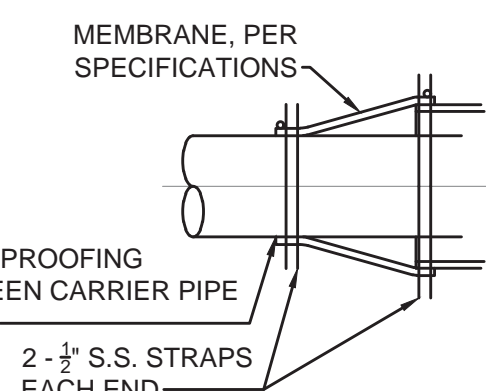


E.O.L. 2", 3", or 4" UNDERGROUND BLOWOFF ASSEMBLY

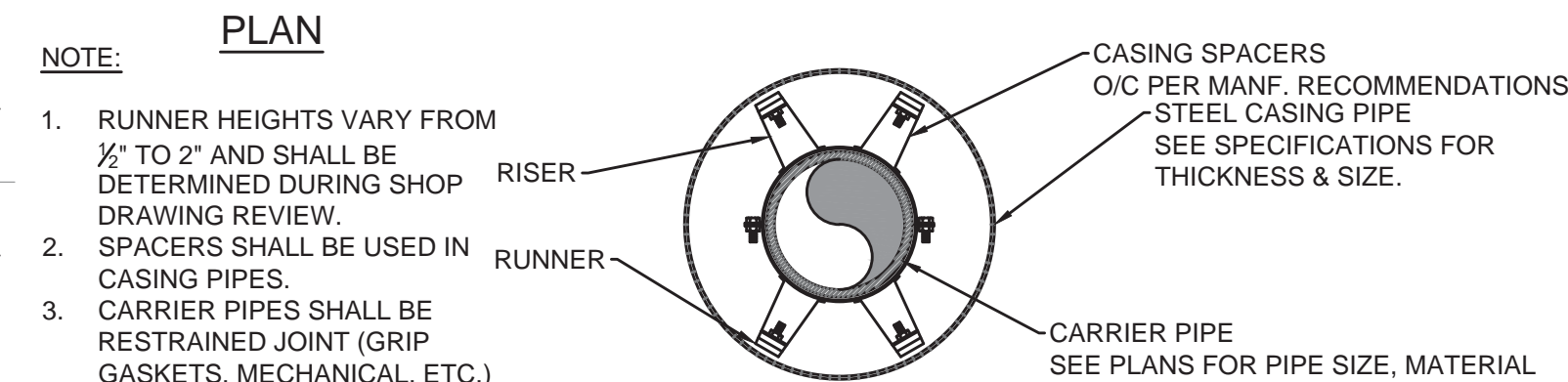
NOT TO SCALE



PLAN



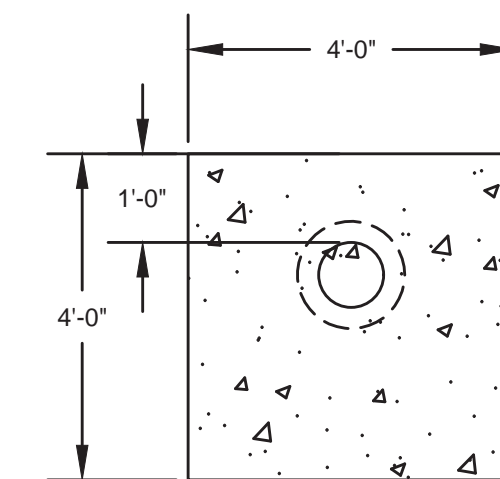
DETAIL - END SEAL



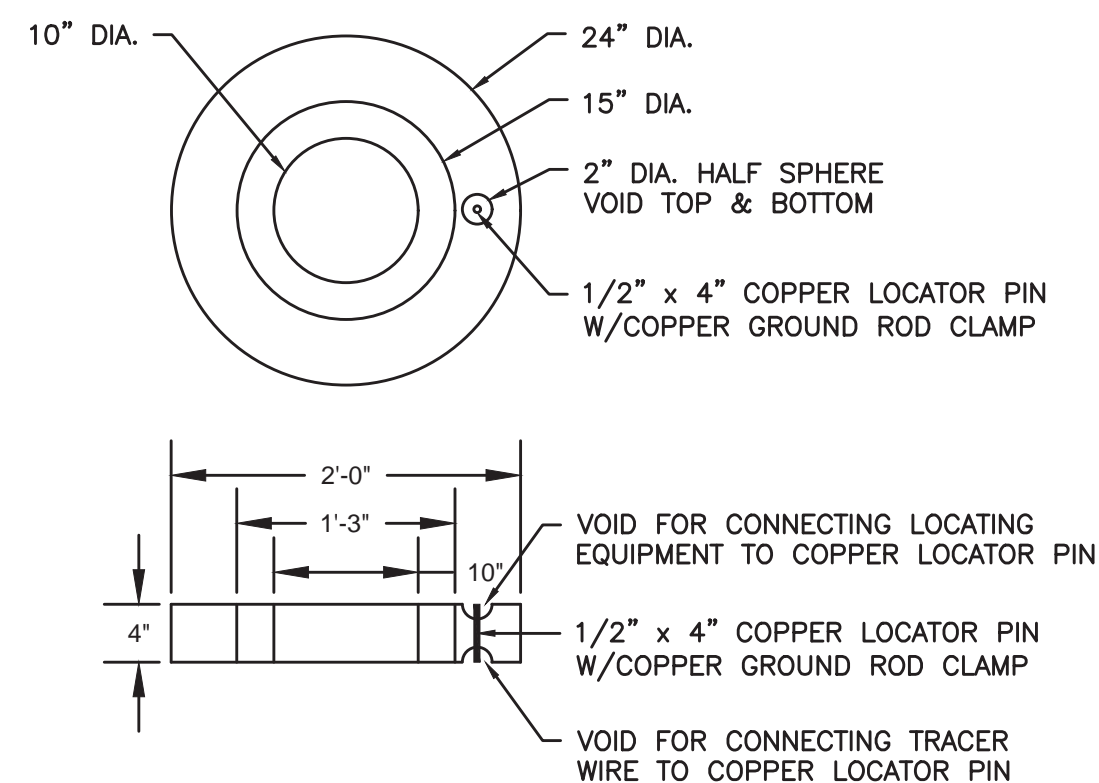
CROSS SECTION

DETAIL - STEEL CASING

NOT TO SCALE

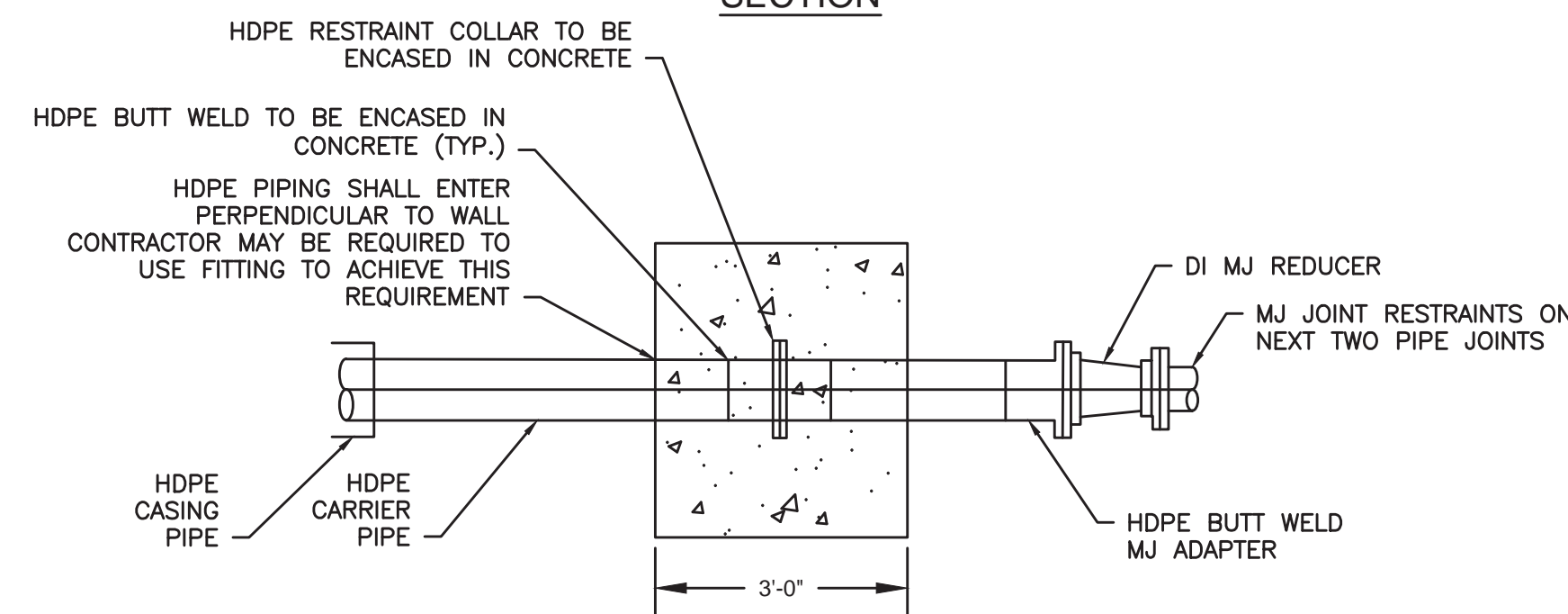


SECTION



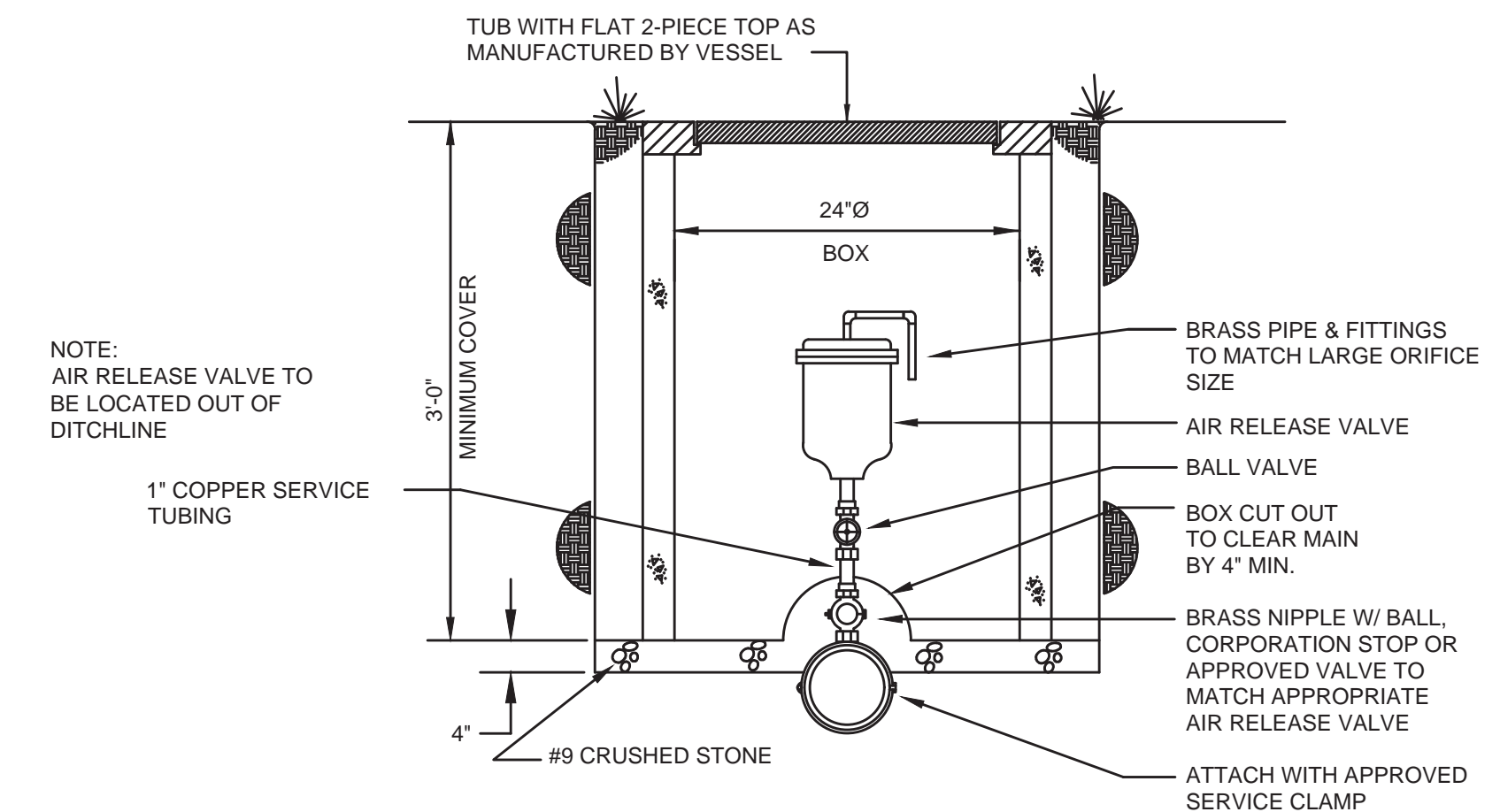
24" DIAMETER CONCRETE VALVE BOX PROTECTOR RING W/COPPER LOCATOR PIN

NOT TO SCALE



HDPE RESTRAINT WALL

NOT TO SCALE



AIR RELEASE VALVE

NOT TO SCALE

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: XX/XX

NO.	DATE	BY

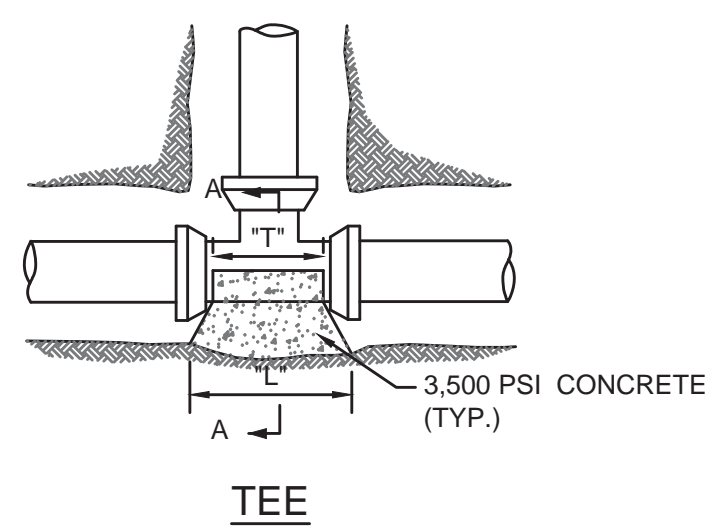
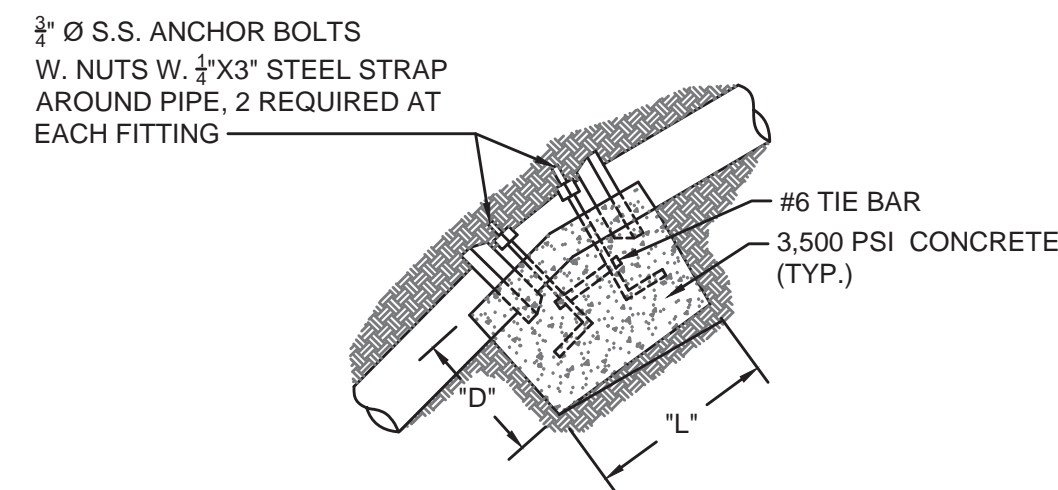
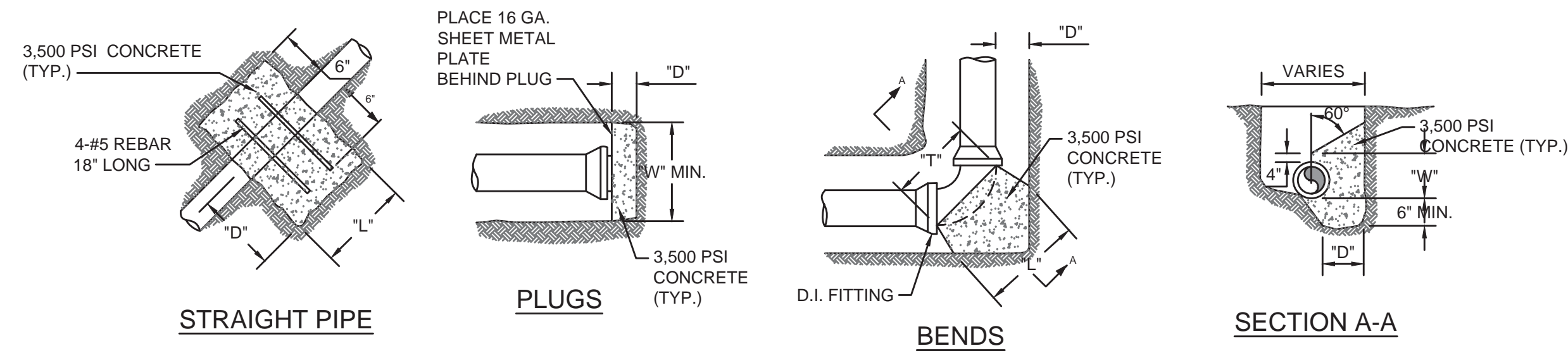
2019 WATER SYSTEM IMPROVEMENTS
CONTRACT 1
STANDARD DETAILS

PROJECT #: 18029
DATE: AUGUST 2020
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DRAWN BY: WCM
CHECKED BY: PBR

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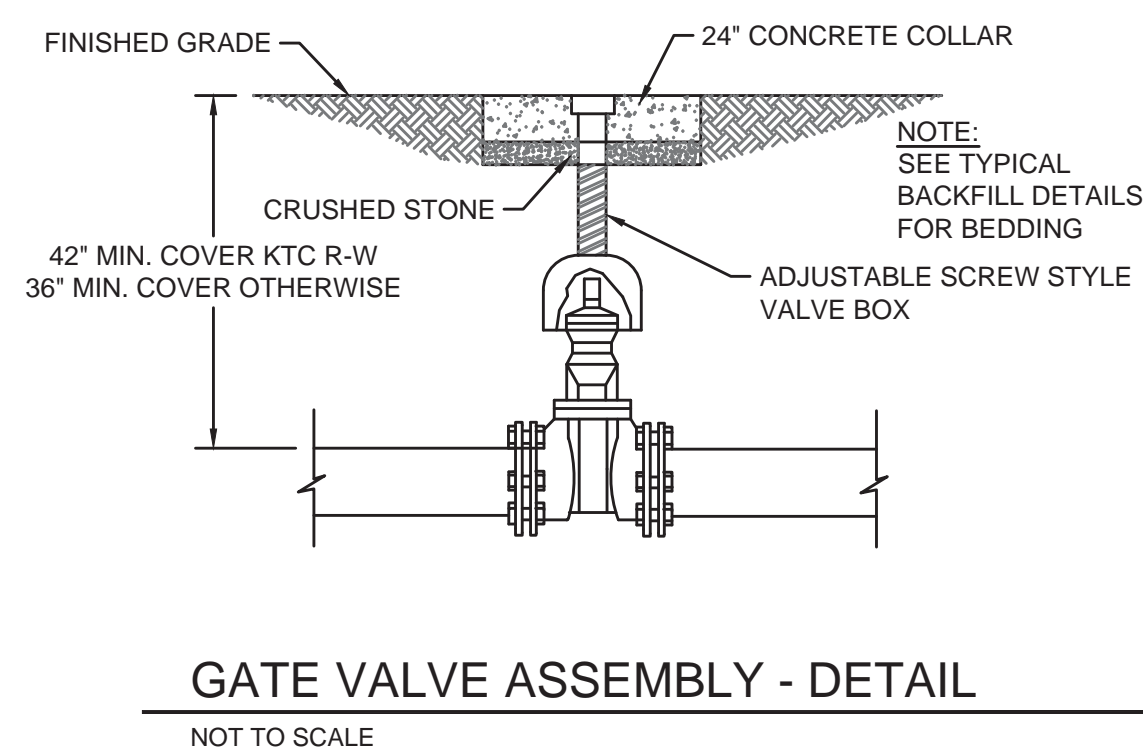


- NOTE:**
- SEE PLAN SHEETS FOR SIZE, MATERIAL & LOCATION OF PIPE.
 - SIDES OF ALL TRENCHES TO BE UNDISTURBED SOIL.
 - SEE THIS SHEET FOR BACK FILL DETAILS.
 - DEPTH "D" MAY NOT BE SMALLER THAN SPECIFIED.
 - PIERS SHALL BE PLACED AGAINST UNDISTURBED SOIL.
 - PLACE CONCRETE ANCHORS 25' C/C.

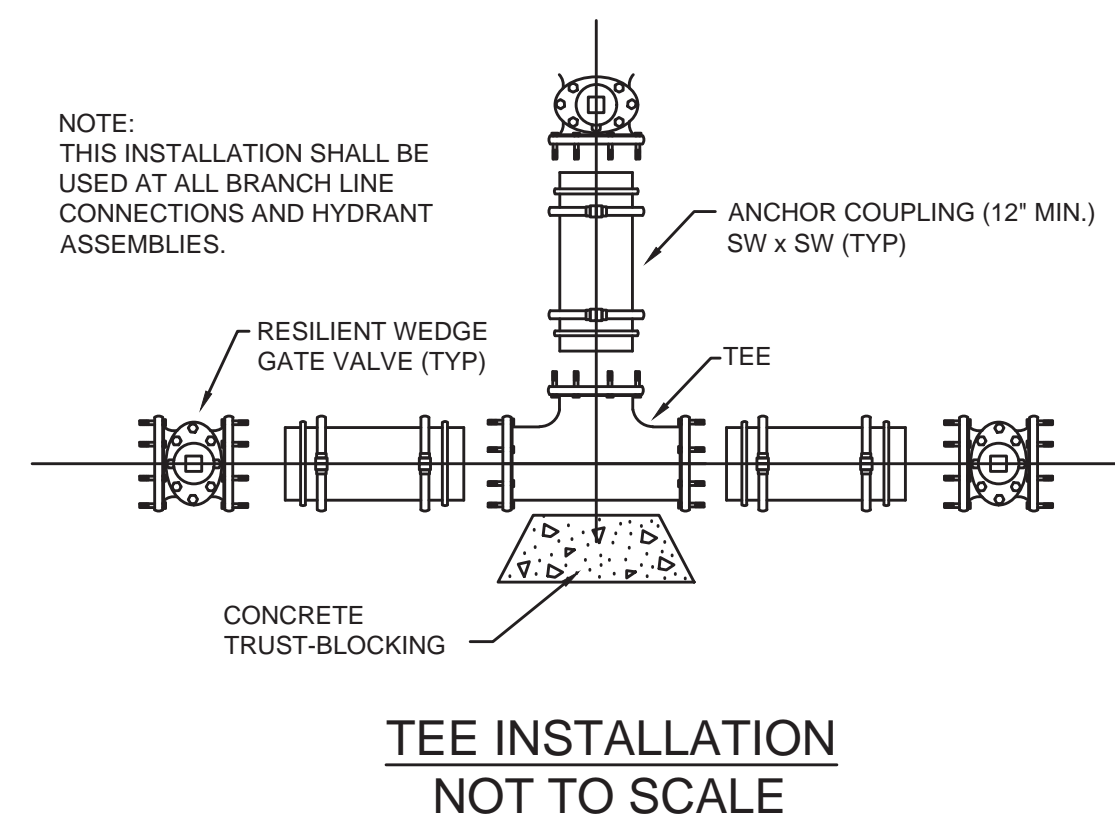
THRUST BLOCK SCHEDULE - CLASS 350 D.I.P. SOIL TYPE - SAND & GRAVEL BEARING STRENGTH = 3000 PSF

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	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	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	24	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	30	37.750	4.63	42

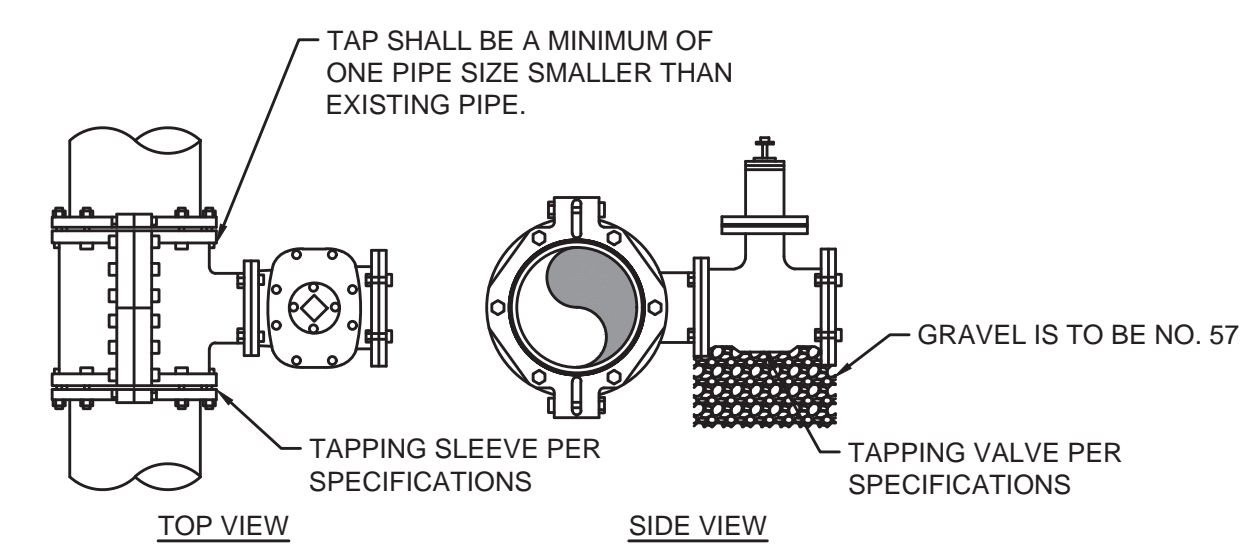
THRUST BLOCKING & CONCRETE ANCHORS - DETAIL
NOT TO SCALE



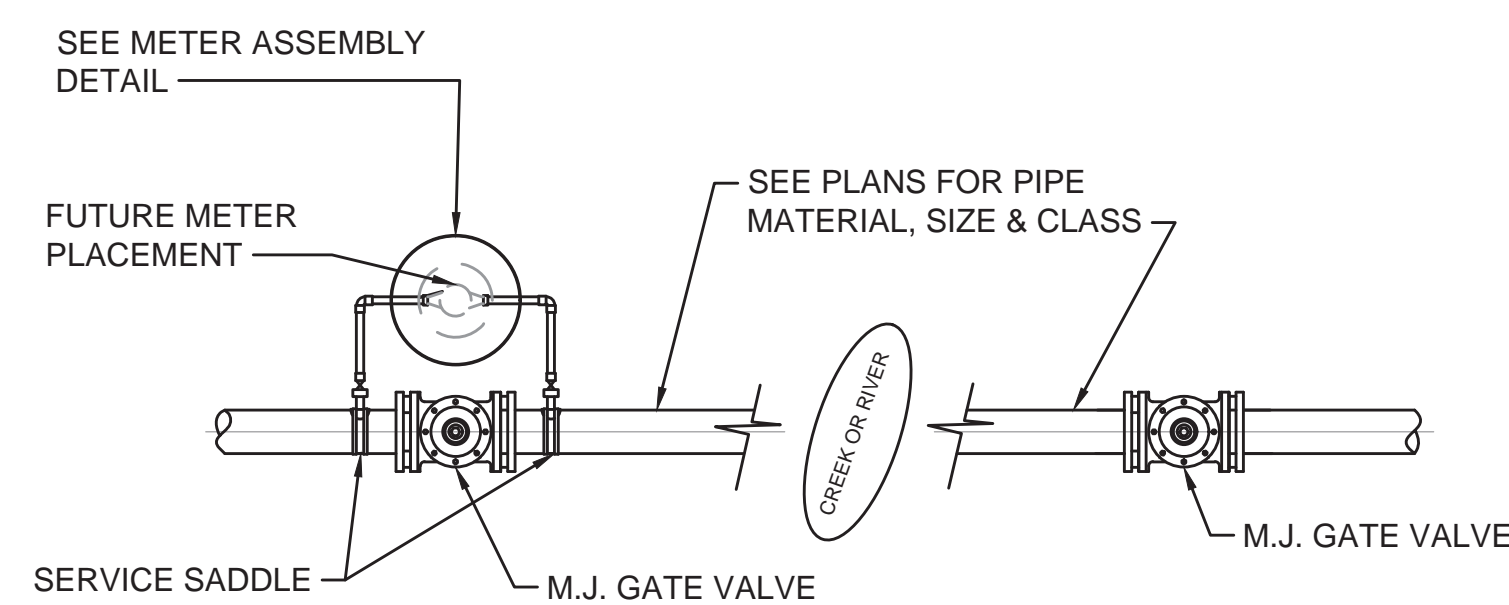
GATE VALVE ASSEMBLY - DETAIL
NOT TO SCALE



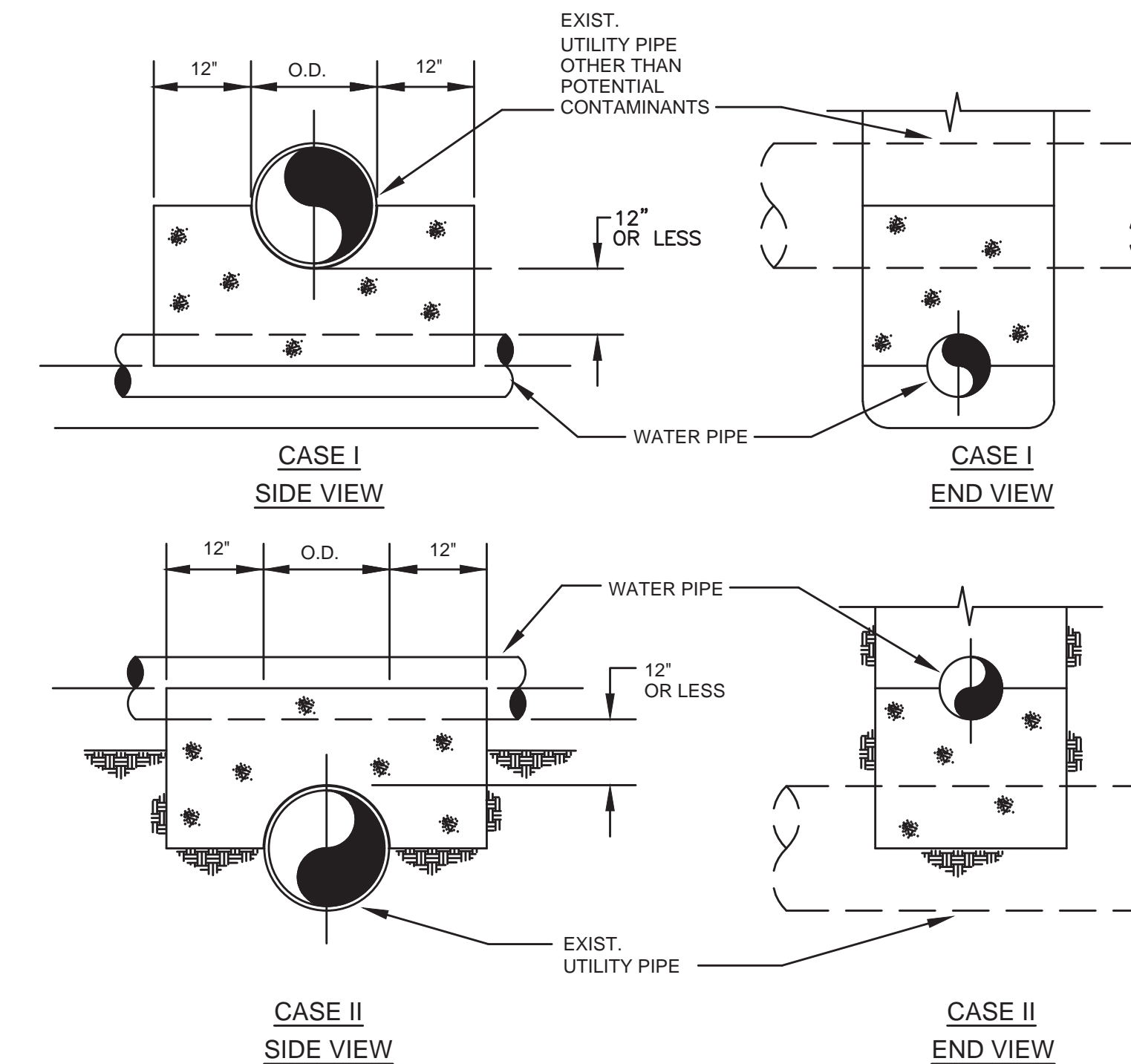
TEE INSTALLATION NOT TO SCALE



WET TAP SLEEVE & VALVE ASSEMBLY - DETAIL
NOT TO SCALE

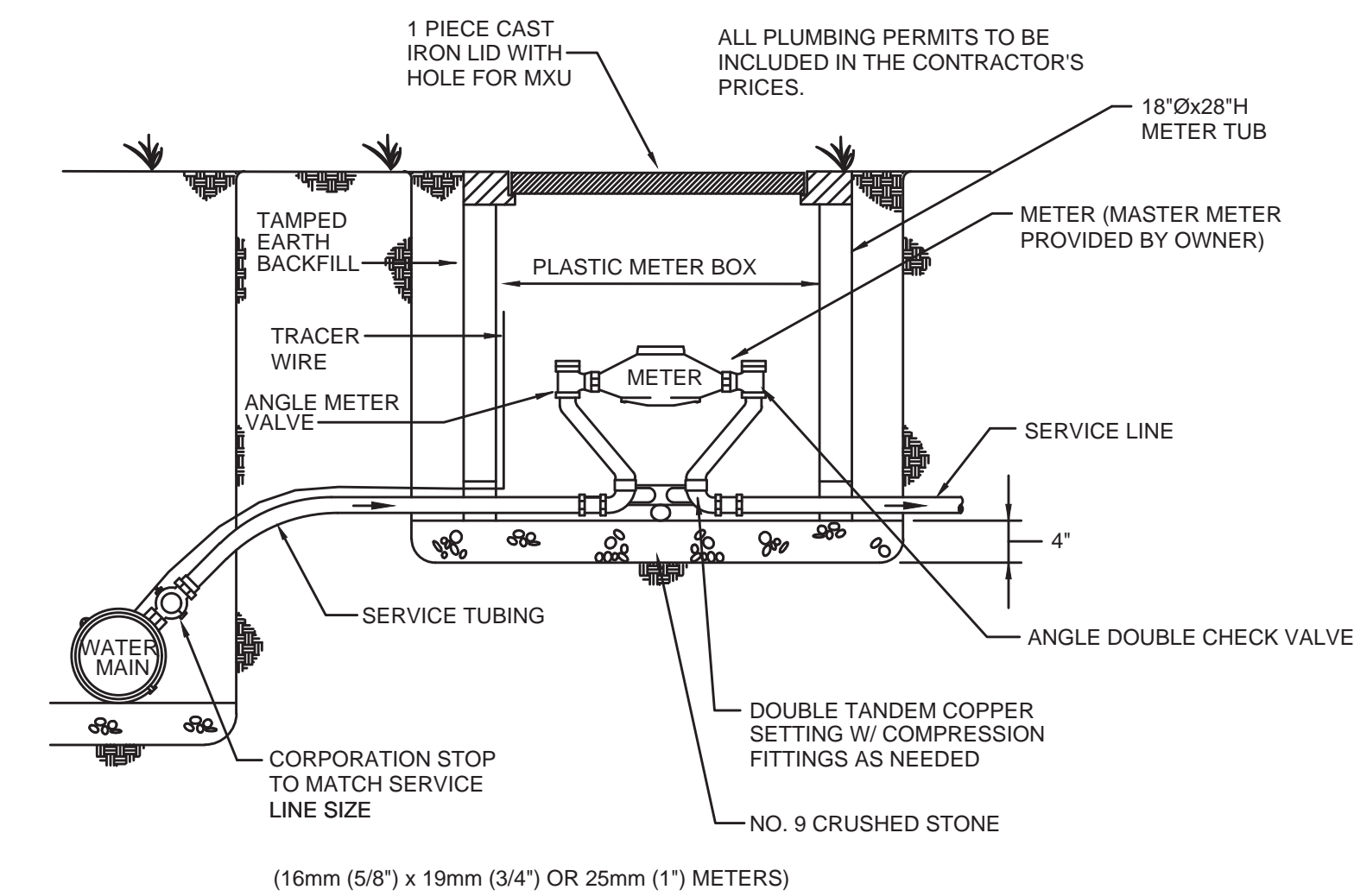


LEAK DETECTION ASSEMBLY - DETAIL
NOT TO SCALE



- 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



- NOTES:**
1. ALL EXISTING PULL UP BOXES SHALL BE REPLACED WITH NEW METER ASSEMBLY

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: XX/XX

NO.	DATE	BY

2019 WATER SYSTEM IMPROVEMENTS
CONTRACT 1
STANDARD DETAILS

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

PROJECT #: 18029
DATE: AUGUST 2020
PROJECT MGR: LRS
DRAWN BY: WCM
CHECKED BY: PBR

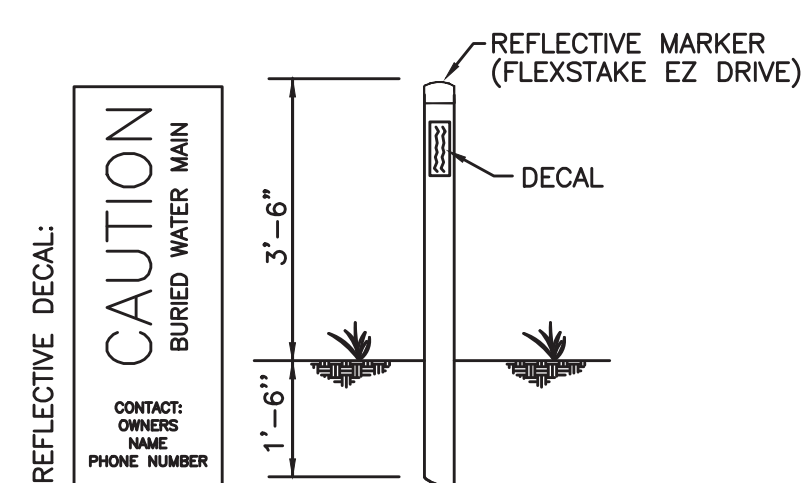


THIS DRAWING HAS BEEN PREPARED AT THE SCALE INDICATED. REPRODUCTION OF THIS DRAWING MAY BE MADE AT THE SCALE OF THE LISTED SCALE. THE GRAPHIC SCALE BAR SHALL BE USED TO DETERMINE THE ACTUAL SCALE.

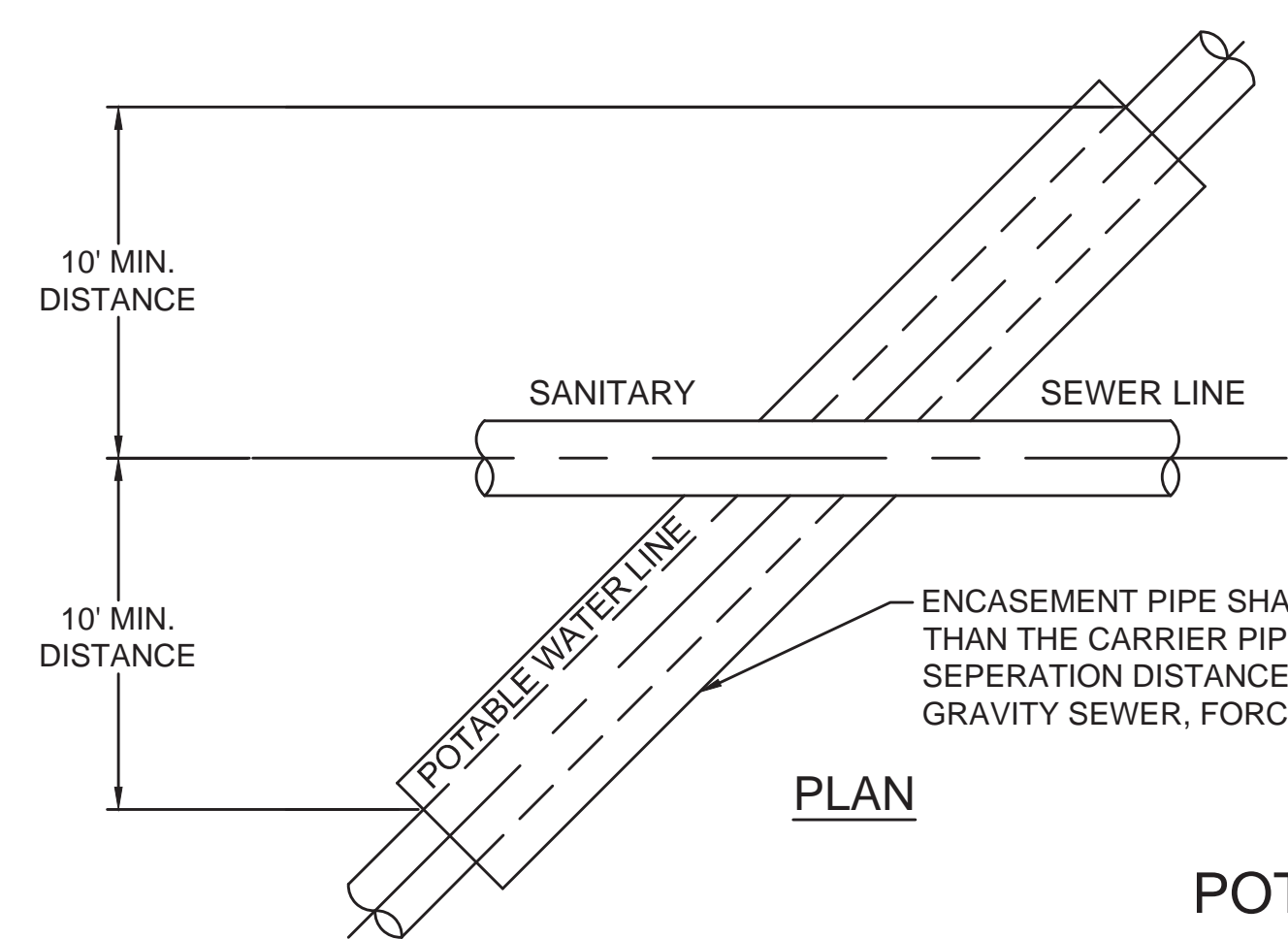
IT IS A VIOLATION OF LAW FOR ANY PERSON TO ALTER THIS DRAWING WITHOUT WRITTEN PERMISSION FROM BLUEGRASS ENGINEERING, PLLC AND ACTING UNDER THE DIRECTION OF A LICENSED ENGINEER.

B:\PROJECTS\North Mercer Water District\18029 - 2018 Water System Improvements\Drawings\Record Drawings\Contract 1 (23-25).dwg BE 3/08/23

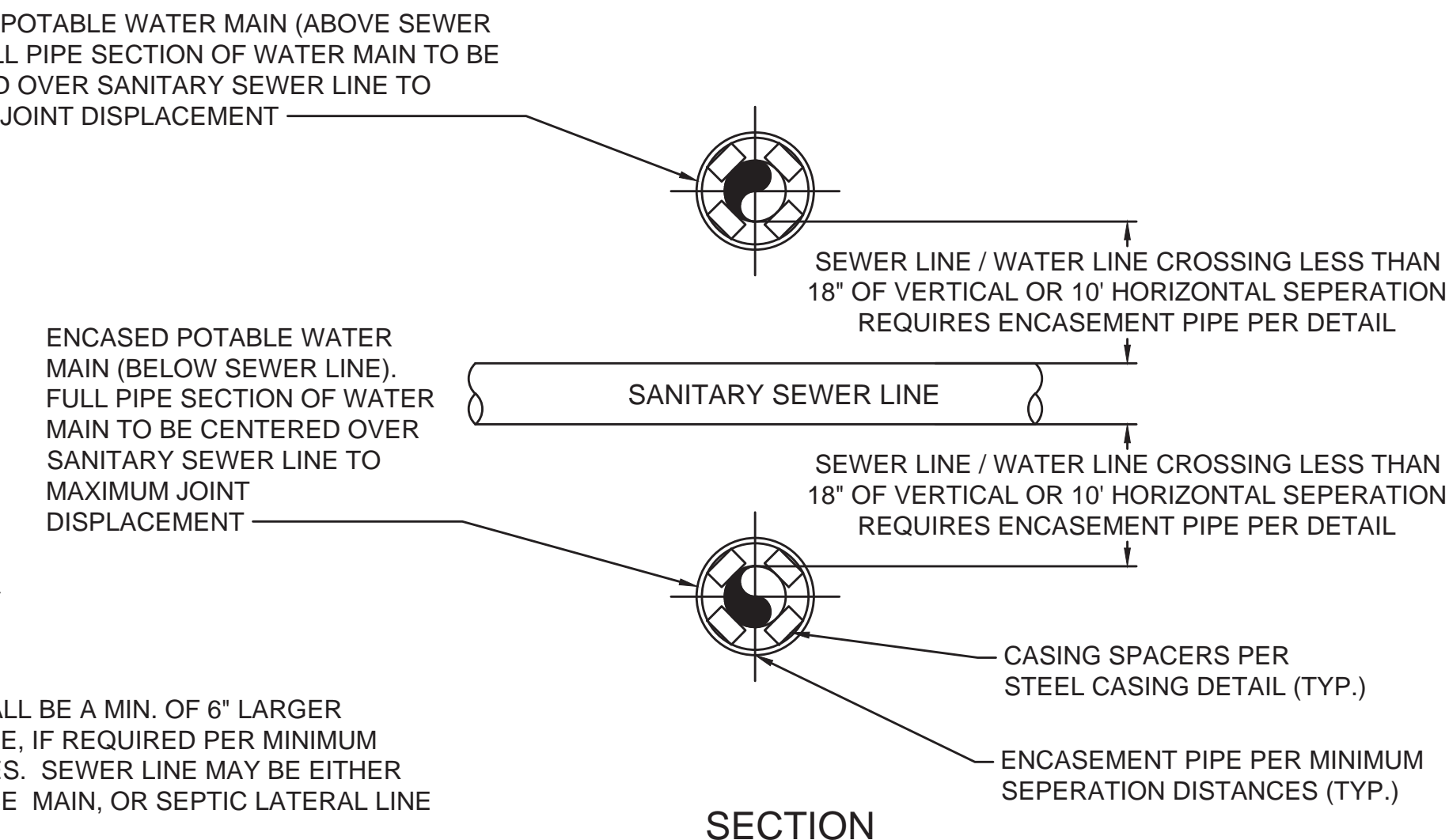
NOTE:
WATER MARKERS SHALL BE PLACED WHENEVER A ROAD CROSSING IS MADE AT EACH SIDE OF THE ROAD AND AT EACH VALVE OR SET OF VALVES.



WATER MARKER DETAIL
NOT TO SCALE



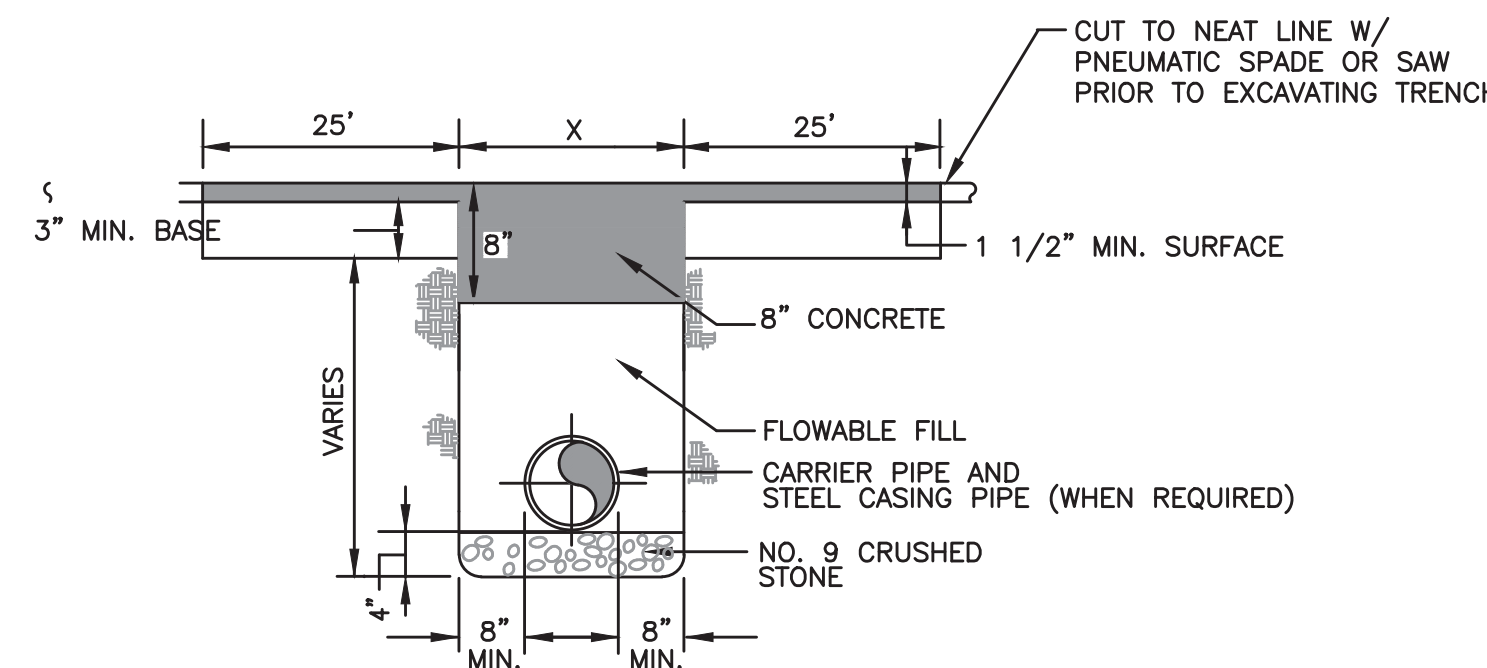
PLAN



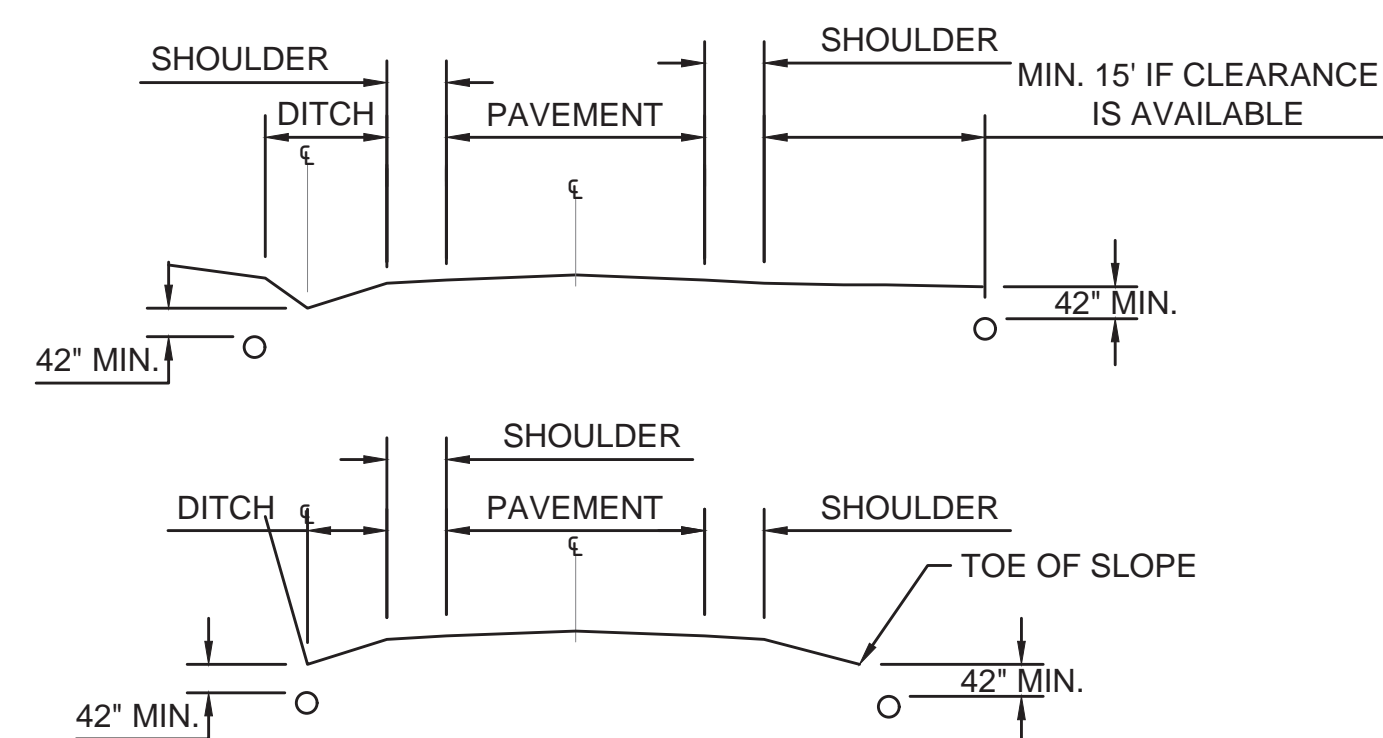
SECTION

POTABLE WATER LINE & SEWER LINE CROSSING - DETAIL

NOT TO SCALE

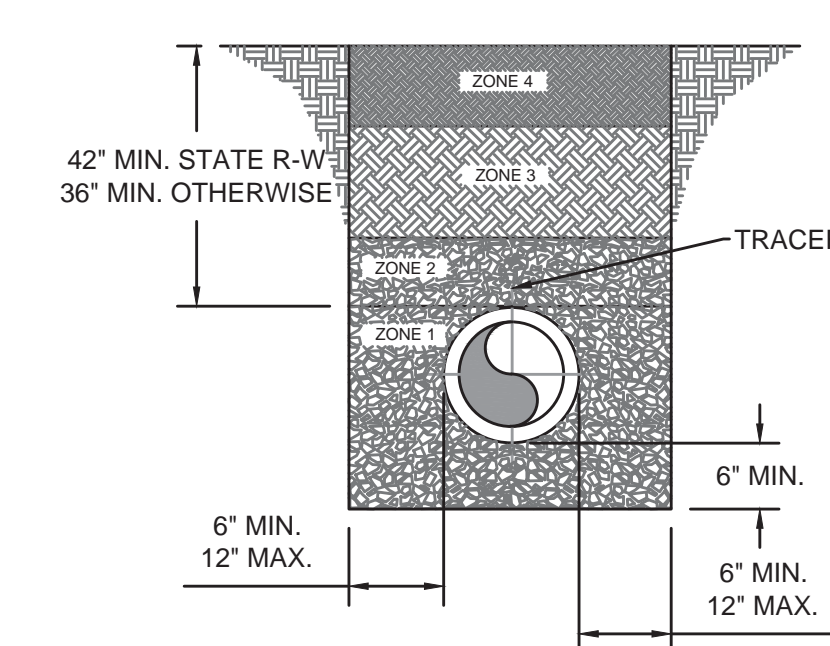


OPEN CUT DRIVEWAY BACKFILL REQUIREMENTS
NOT TO SCALE



UTILITY PIPELINE WITHIN KTC ROW - DETAIL

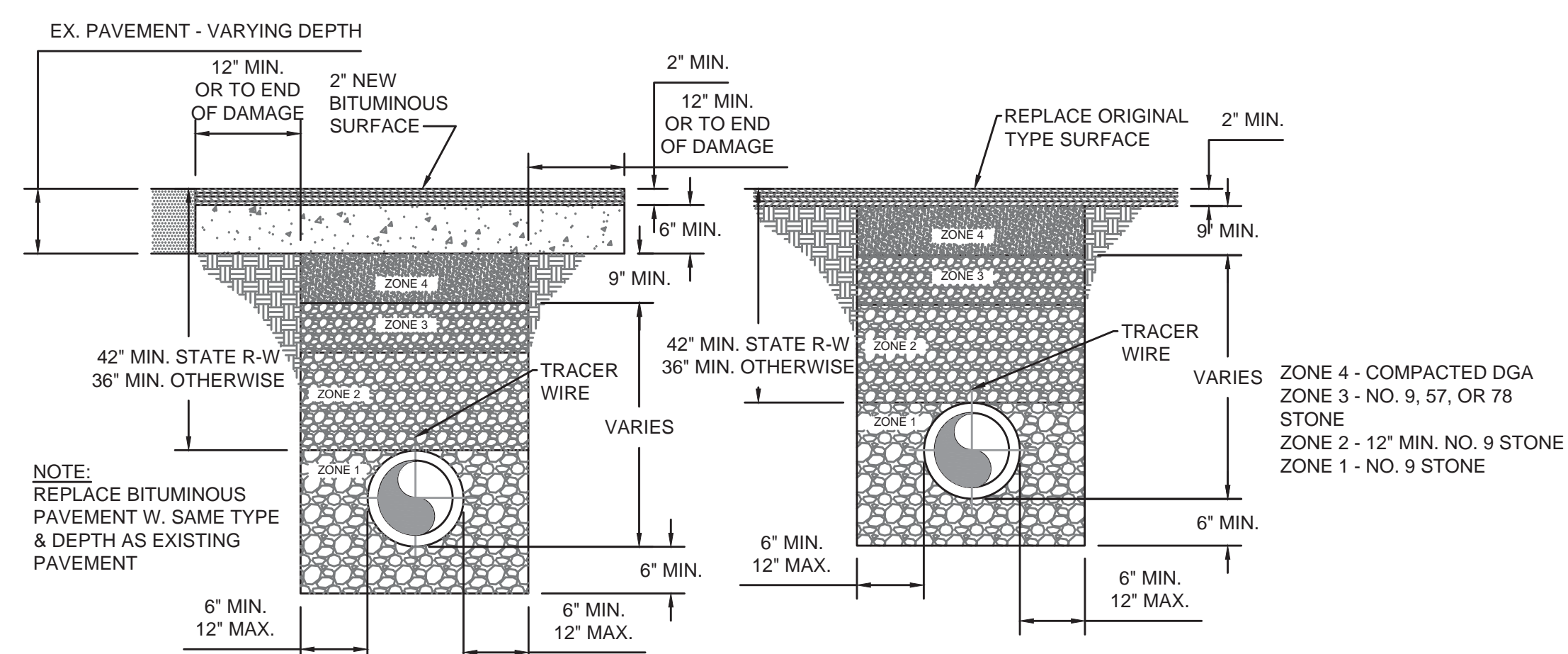
NOT TO SCALE



PIPE LAID IN ROCK OR EARTH TRENCH

NOTE:

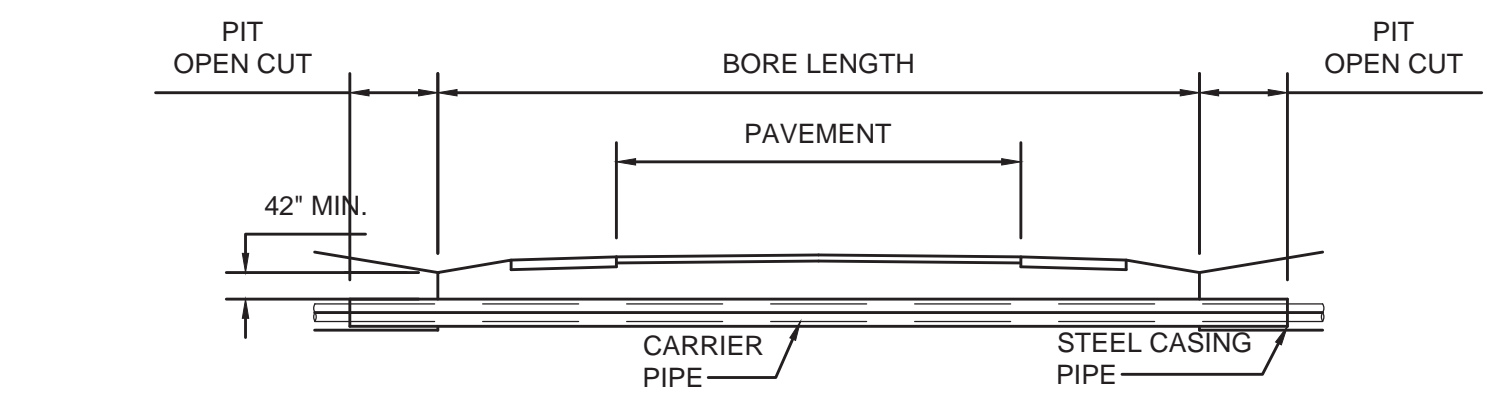
- COVER UP TO AND INCLUDING ZONE 4 SHALL BE ESTABLISHED BEFORE TRENCH EXCAVATION.
- ZONE 4 - 6" MIN. CONSOLIDATION EARTH BACKFILL INCLUDING TOPSOIL, NO ROCK ALLOWED.
- ZONE 3 - CONSOLIDATED SOIL, (NO ROCK GREATER THAN 6" DIAMETER) NO. 9, 57 OR 78 STONE
- ZONE 2 - FROM THE SPRINGLINE OF THE PIPE TO A 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.
- 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.



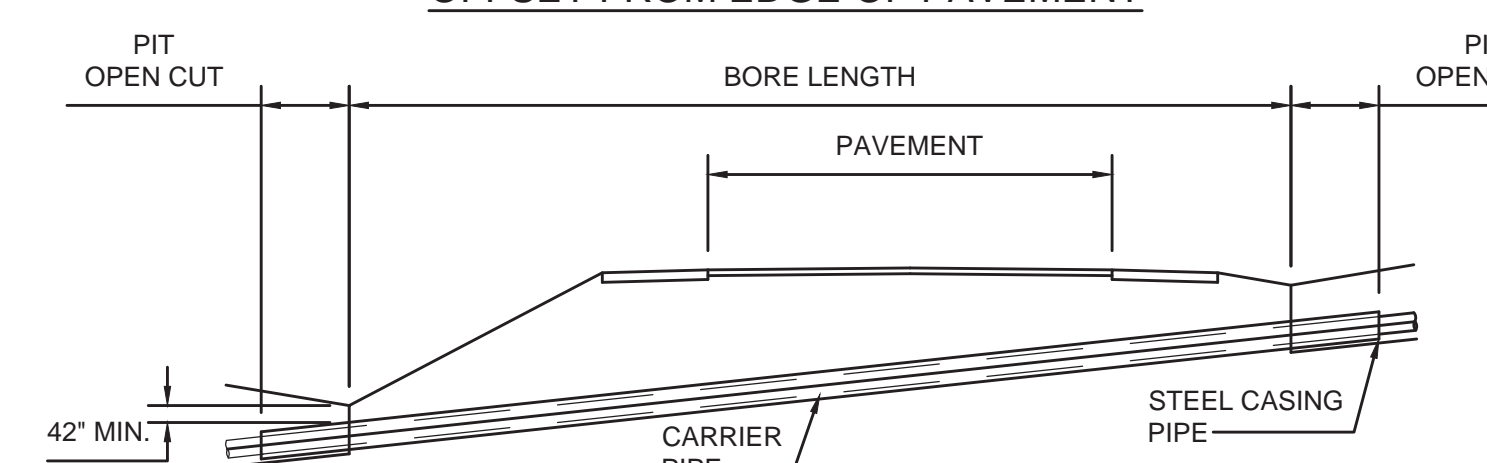
ORIGINAL BITUMINOUS SURFACING OVER 2"

ORIGINAL BITUMINOUS SURFACING 2" OR LESS AND TRAFFIC BOUND MACADAM

DETAIL - BACKFILL
NOT TO SCALE



OFFSET FROM EDGE OF PAVEMENT



FROM TOE OF SLOPE

DETAIL - KTC CROSSING
NOT TO SCALE

NOTE:

- ALL JOINTS OF STEEL CASING SHALL BE SOLIDLY WELDED. END OF CASING SHALL BE SEALED AFTER LINE HAS BEEN INSTALLED AND TESTED.
- MINIMUM DEPTHS MAY INCREASE IN AREAS WHICH REQUIRE MINIMUM SEPARATION WITH OTHER FACILITIES.
- OPEN TRENCH NO CLOSER THAN THE DITCHLINE OR TOE OF FILL FROM THE EDGE OF THE PAVEMENT OR AS DIRECTED BY THE SPECIFICATIONS.
- 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.
- SEE CASING SPACER DETAIL FOR PLACEMENT OF SPACER.

RECORD DRAWINGS

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BY: BLUEGRASS ENGINEERING, PLLC DATE: XX/XX

NO.	DATE	REVISIONS	BY

2019 WATER SYSTEM IMPROVEMENTS
CONTRACT 1
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