

WATER SYSTEM IMPROVEMENTS PROJECT

FOR THE
WESTERN MASON WATER DISTRICT
2573 MARY INGLES HIGHWAY

DOVER, KY 41034

BOARD MEMBERS

Larry Redden, Chairman

Pam Carpenter, Secretary

Jerry Fields, Treasurer

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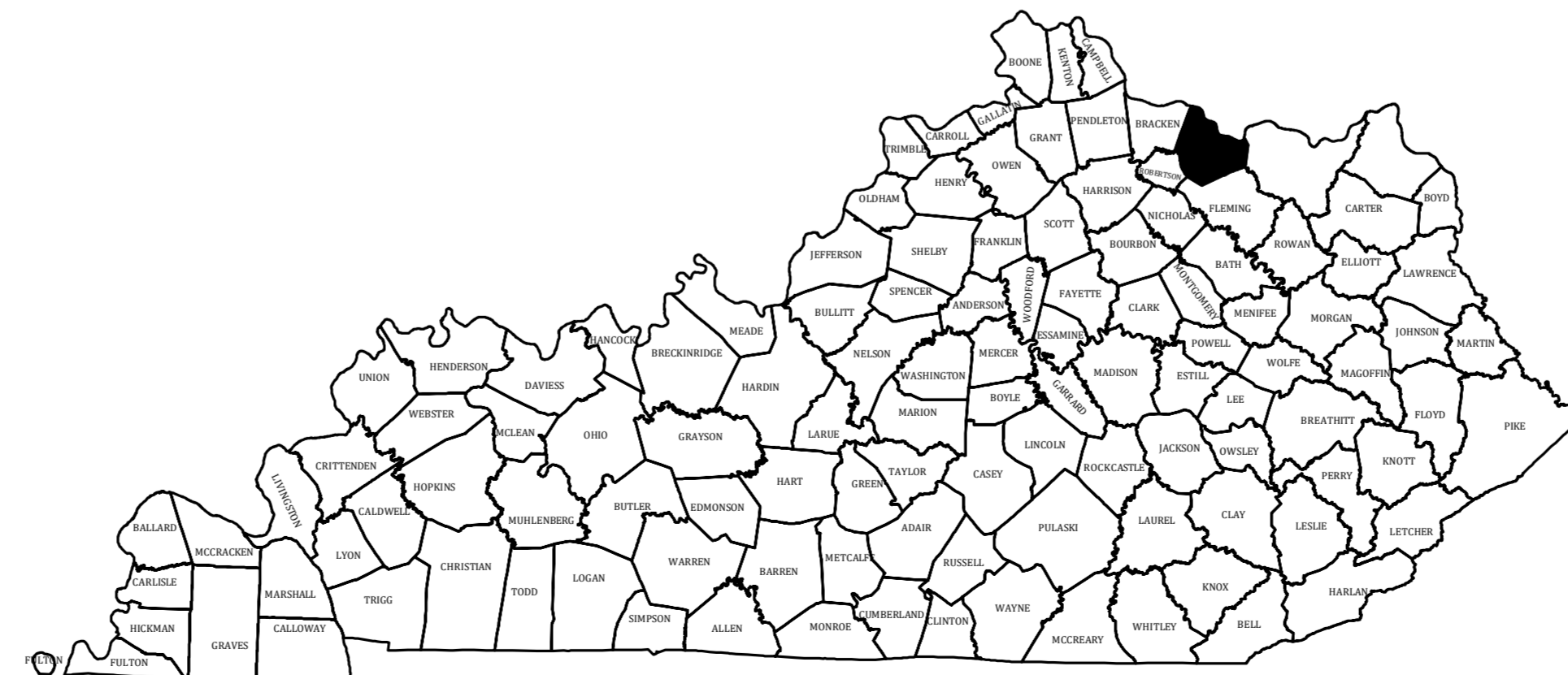
Chris Scott, Field Supervisor

APRIL 2020

PREPARED BY:



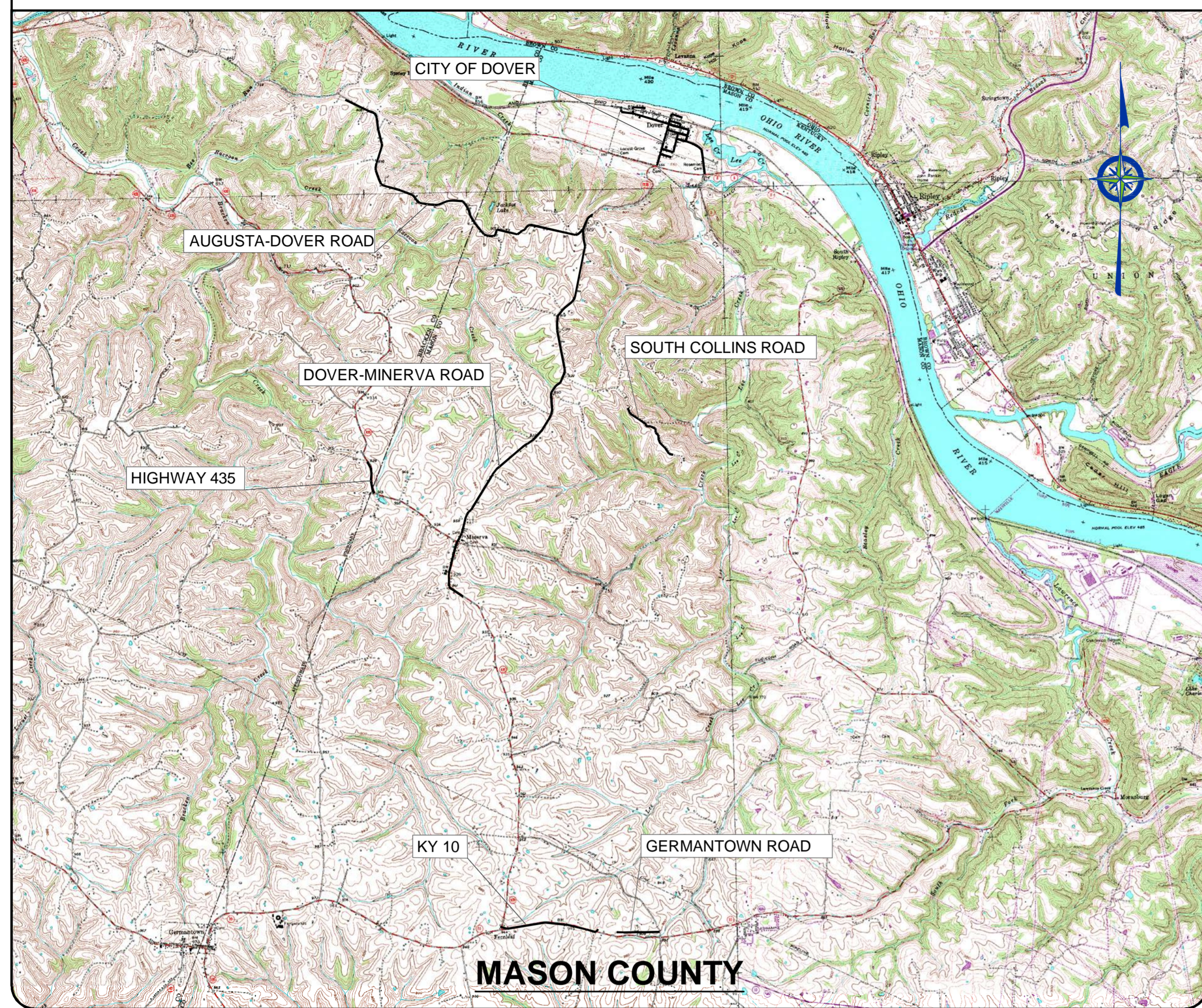
222 East Main Street, Ste. 1 • Georgetown, KY 40324



PROJECT NO. 18026

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 B:\PROJECTS\Western Mason Water District\18026 - Water System Improvements Project\DWG\18026-01.dwg

PROJECT MAP



EXISTING UTILITIES



WATER
 WESTERN MASON WATER DISTRICT
 PO BOX 49
 DOVER, KY 41034
 DAVID FRENCH, MANAGER
 (606) 882-3141 OFFICE

GAS
 COLUMBIA GAS
 (800) 432-9345

ELECTRIC
 KENTUCKY UTILITIES
 (800) 981-0600
 FLEMING MASON ENERGY CO-OP
 (800) 464-3144

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.

TELEPHONE & CABLE
 WINDSTREAM
 (800) 347-1991

LIMESTONE CABLEVISION
 (606) 564-9220

SEWER
 WESTERN MASON SEWER DISTRICT

DRAWING INDEX

SHT. NO.	DESCRIPTION
--	COVER
01-00	PROJECT MAP, EXISTING UTILITIES, LEGEND and DRAWING INDEX
02-00	CITY OF DOVER NAMES & PARCEL ALLOCATIONS
02-01 - 02-06	AERIAL PLAN - CITY OF DOVER
03-01 - 03-08	AERIAL PLAN - DOVER MINERVA ROAD
04-01 - 04-05	AERIAL PLAN - AUGUSTA DOVER ROAD
05-01	AERIAL PLAN - SOUTH COLLINS ROAD
06-01 - 06-02	AERIAL PLAN - HIGHWAY 435
07-01 - 07-02	AERIAL PLAN - KY 10
08-01	AERIAL PLAN - GERMANTOWN ROAD
09-01 - 09-03	STANDARD DETAILS - WATER MAIN

LEGEND

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

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 ENCASMENT. 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 36" 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" PE CTS 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
 - ALL EXISTING METERS SHALL BE RECONNECTED TO NEW WATER MAINS W/NEW 3/4" PE SERVICE LINE, SETTERS, BOX, AND LID

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 ENGINEER PRIOR TO RECONNECTS OF ANY METER.
- A NO. 12 AWG INSULATED COPPER LOCATOR WIRE SHALL BE PLACED IN THE TRENCH SIX INCHES ABOVE ALL PLASTIC LINES. THE INSULATION SHALL BE BLUE FOR WATER. THE WIRE SHALL BE LOOPED INTO 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.
- OWNER RESERVES THE RIGHT TO SUSPEND CONSTRUCTION ACTIVITIES DURING THE WINTER MONTHS OF DECEMBER THRU FEBRUARY AS WEATHER CONDITIONS DICTATE.

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

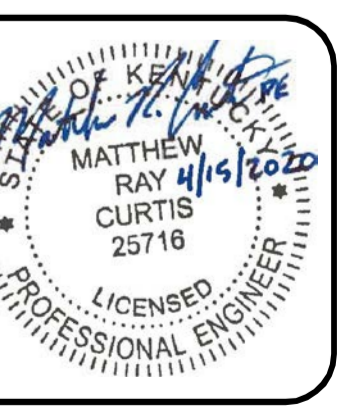
- ALL EFFECTED KYTC DITCHLINES SHALL REMAIN FREE OF EXCESS SILT OR EROSION AND CONSTRUCTED TO THE NORMAL TYPICAL SECTION OF THE ROADWAY WITH A MINIMUM DEPTH OF 18 INCHES FROM THE SHOULDER BREAK POINT.
- ALL NECESSARY STEPS SHALL BE TAKEN TO PREVENT EROSION OR SILTATION OF THE PUBLIC RIGHT-OF-WAY, ADJOINING 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.

NO.	DATE	REVISIONS	BY

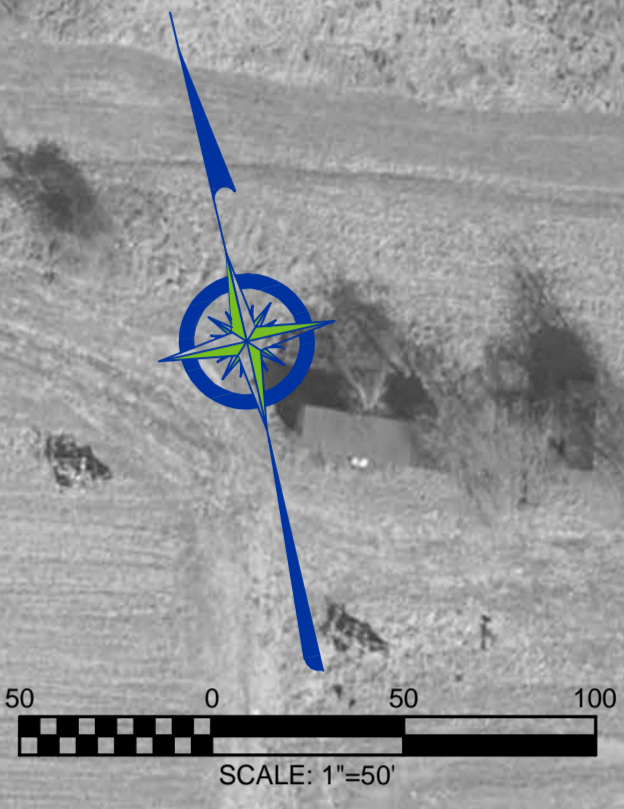
WATER SYSTEM IMPROVEMENTS PROJECT
 PROJECT MAP, EXISTING UTILITIES, LEGEND & DRAWING INDEX



PROJECT #:	18026
DATE:	APRIL 2020
PROJECT MGR:	LRS
DRAWN BY:	CBW
CHECKED BY:	PBR



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NOTE:

- ALL PIPE SHALL BE CLASS 250, SDR 17 UNLESS OTHERWISE NOTED
- ALL WATER MAIN SHALL BE INSTALLED NEXT TO CITY STREET (WHERE APPLICABLE) AND WITHIN CITY RIGHT-OF-WAY
- OPEN CUT ALL CITY STREETS
- OPEN CUT DRIVEWAYS UNLESS OTHERWISE NOTED. REPAIR SHALL BE SINGLE SEAM.
- REPLACE ALL SERVICE LINE AND METER ASSEMBLY AND RECONNECT TO NEW WATER MAIN.
- METER WORK CAN ONLY BEGIN AFTER NEW WATER MAIN HAS BEEN SUCCESSFULLY PRESSURE TESTED, STERILIZED AND SAMPLED.
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**WATER SYSTEM
IMPROVEMENTS PROJECT**
AERIAL PLAN - CITY OF DOVER
MULTIPLE LINE SEGMENTS



PROJECT #: 18026
 DATE: APRIL 2020
 PROJECT MGR: LRS
 DRAWN BY: CBW
 CHECKED BY: PBR



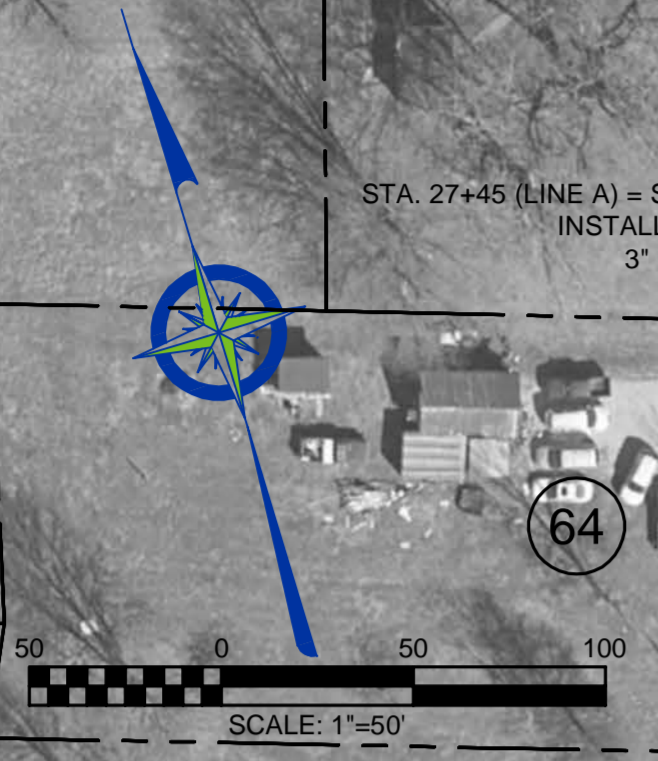
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AERIAL PLAN - CITY OF DOVER
MULTIPLE LINE SEGMENTS



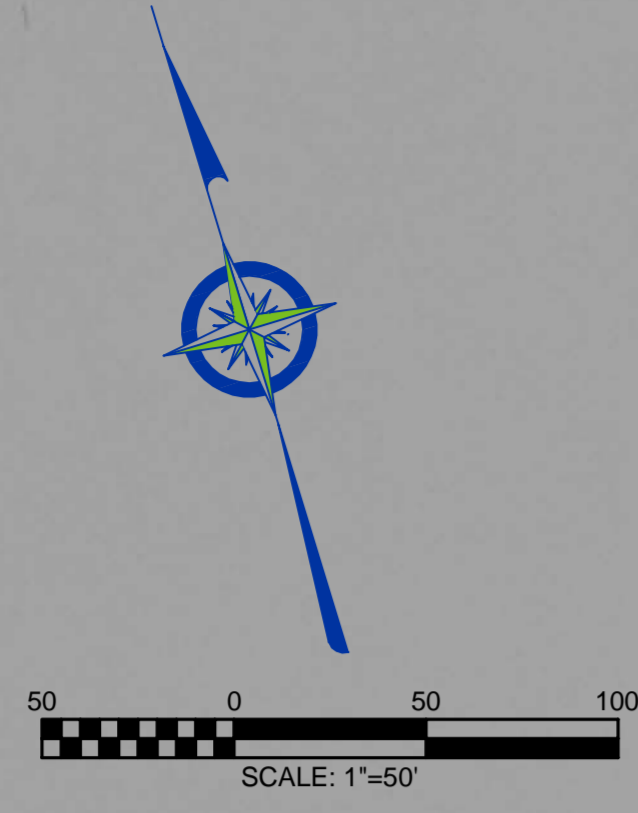
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NOTE:

ALL PIPE SHALL BE CLASS 250, SDR 17 UNLESS OTHERWISE NOTED

ALL GASKETS FOR FITTINGS, VALVES, HYDRANTS, AND PIPE SHALL BE NITRILE GASKETS BETWEEN STA. 600+00 & STA. 602+80 (LINE G), STA. 27+27 & 29+92 (LINE A), STA. 319+46 & STA. 323+23 (LINE D)

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WATER SYSTEM IMPROVEMENTS PROJECT
AERIAL PLAN - CITY OF DOVER
MULTIPLE LINE SEGMENTS



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02-03
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**WATER SYSTEM
IMPROVEMENTS PROJECT**
AERIAL PLAN - CITY OF DOVER
MULTIPLE LINE SEGMENTS

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

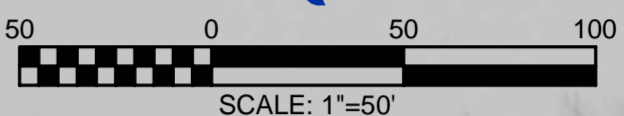
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02-04

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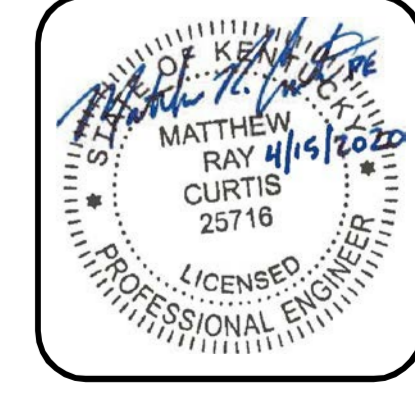
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WATER SYSTEM IMPROVEMENTS PROJECT
AERIAL PLAN - CITY OF DOVER
STA. 505+00 TO STA. 520+00



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02-05

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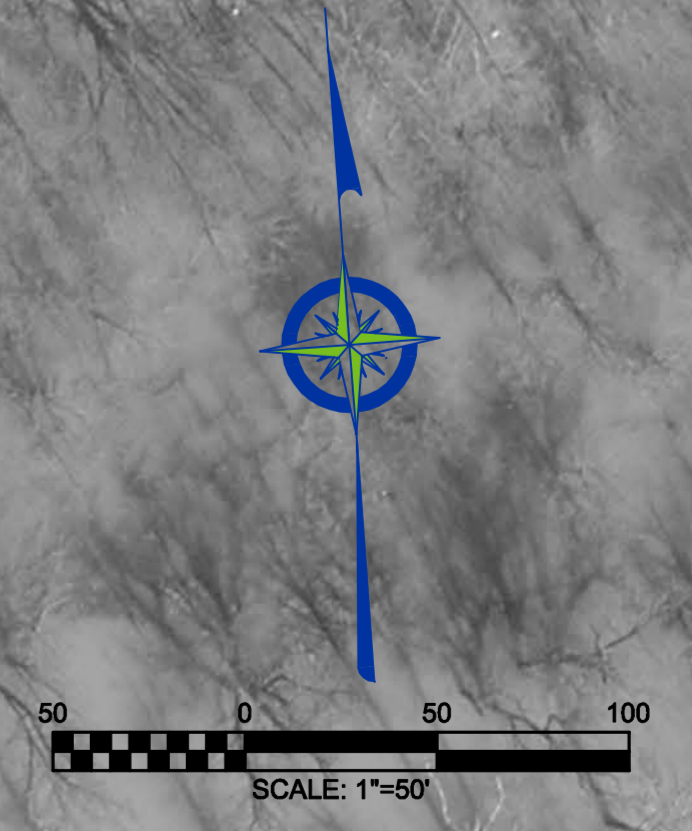
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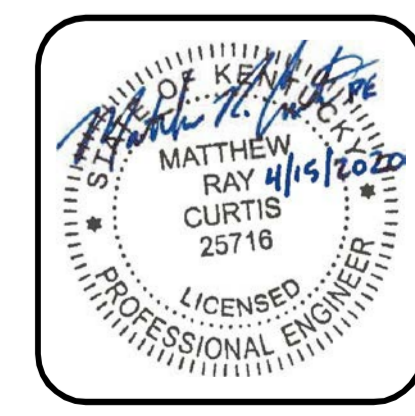


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**WATER SYSTEM
IMPROVEMENTS PROJECT**
AERIAL PLAN - CITY OF DOVER
STA. 520+00 TO STA. 524+08


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

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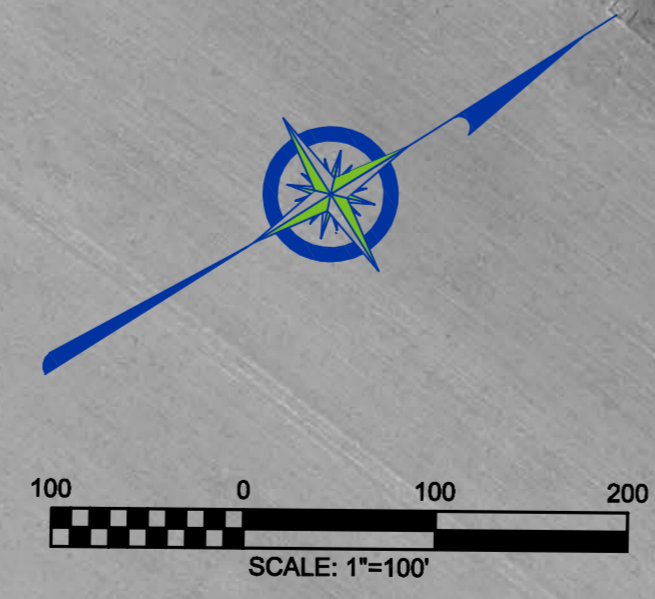


02-06

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Parcel #	Name	Mailing Address	City	State	Zip	Deed Book/Page Number
137	KIRK CHARLES H JR	PO BOX 66	WASHINGTON	KY	41096	344/484
138	KIRK CHARLES H JR	PO BOX 66	WASHINGTON	KY	41096	287/549
139	MASON COUNTY FISCAL COURT	219 STANLEY REED COURT	MAYSVILLE	KY	41056	319/331
140	WORTHINGTON CHAPEL CHURCH INC	709 WEST CHURCH AVENUE	KILLEEN	TX	40134	351/363
141	CARRINGTON DORA	3415 DOVER MINERVA ROAD	DOVER	KY	41034	308/725
142	CHURCH-MINERVA METHODIST	7145 KY 1234	MINERVA	KY	41062	N/A
143	CHURCH-MINERVA BAPTIST	3421 MINERVA TUCKAHOE ROAD	MINERVA	KY	41062	255/650
144	FRIENDS OF MINERVA INC A KY NON PROFIT CORP	3868 KENTUCKY 435	MINERVA	KY	41044	266/213
145	WEISS MARK A & ANNA F	31041 KY 435	DOVER	KY	41034	302/744
149	CHURCH-MINERVA CATHOLIC	3463 MINERVA TUCKAHOE ROAD	MINERVA	KY	41062	N/A



NOTE:

ALL PIPE SHALL BE CLASS 250, SDR 17

REPLACE ALL SERVICE LINE AND METER ASSEMBLY AND RECONNECT TO NEW WATER MAIN.

METER WORK CAN ONLY BEGIN AFTER NEW WATER MAIN HAS BEEN SUCCESSFULLY PRESSURE TESTED, STERILIZED AND SAMPLED.

EXISTING WATER MAIN CAN ONLY BE CUT & PLUGGED AFTER ALL METERS HAVE BEEN SUCCESSFULLY RECONNECTED TO NEW WATER MAIN.

STA. 37+89 CONSTRUCTION ACTIVITIES TO BE MONITORED BY A PROFESSIONAL ARCHAEOLOGIST. ARCHAEOLOGIST TO BE PROVIDED BY WMWD.

NO.	DATE	BY

WATER SYSTEM IMPROVEMENTS PROJECT
AERIAL PLAN - DOVER MINERVA ROAD
STA. 37+00 TO STA. 64+00



PROJECT #: 18026
 DATE: APRIL 2020
 PROJECT MGR: LRS
 DRAWN BY: CBW
 CHECKED BY: PBR

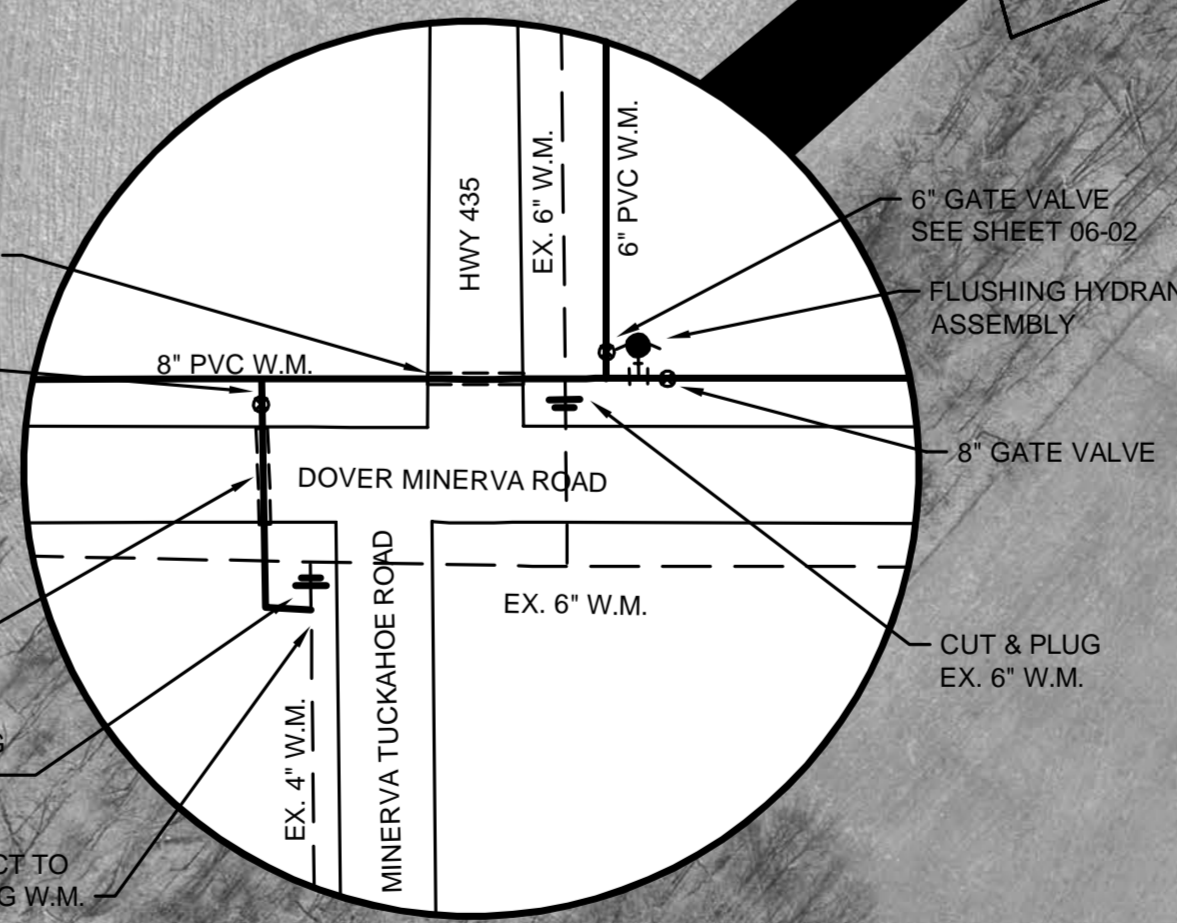
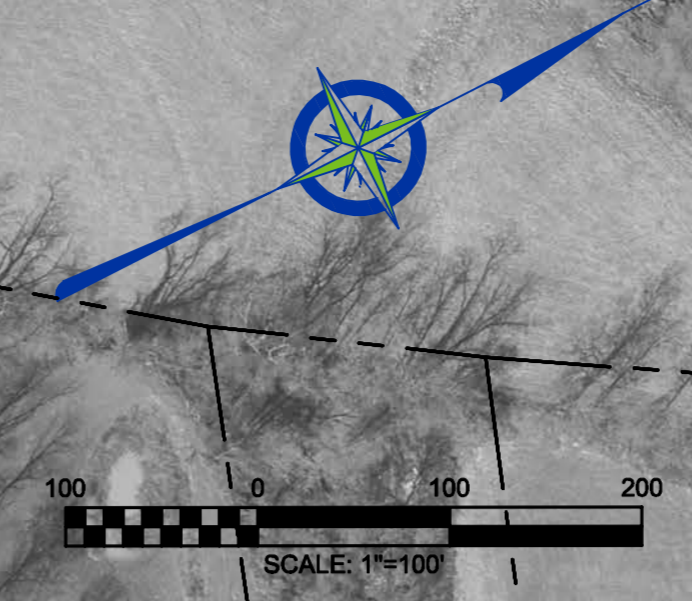
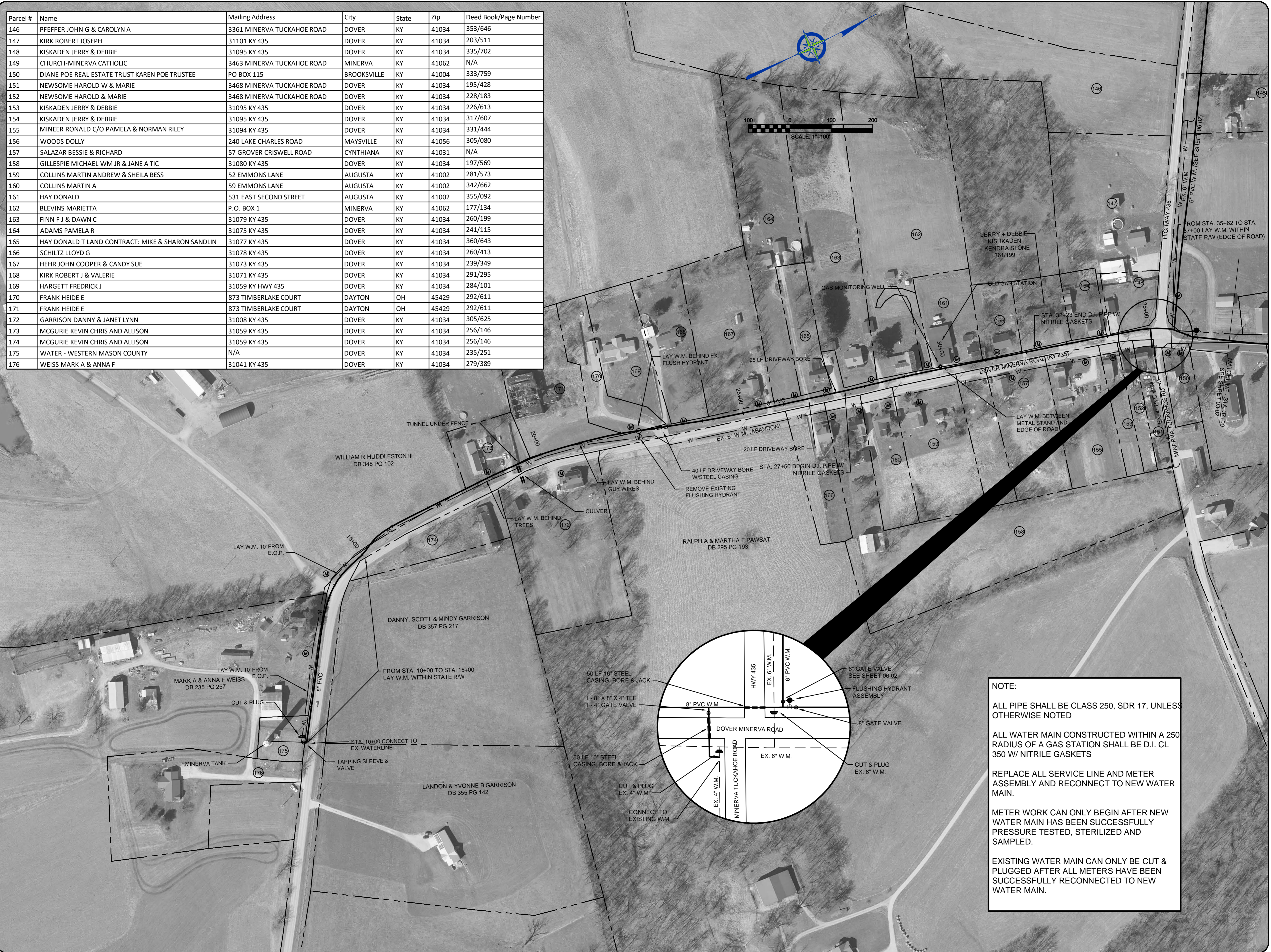


03-02

BID SET

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.
 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.

Parcel #	Name	Mailing Address	City	State	Zip	Deed Book/Page Number
146	PFEFFER JOHN G & CAROLYN A	3361 MINERVA TUCKAHOE ROAD	DOVER	KY	41034	353/646
147	KIRK ROBERT JOSEPH	31101 KY 435	DOVER	KY	41034	203/511
148	KISKADEN JERRY & DEBBIE	31095 KY 435	DOVER	KY	41034	335/702
149	CHURCH-MINERVA CATHOLIC	3463 MINERVA TUCKAHOE ROAD	MINERVA	KY	41062	N/A
150	DIANE POE REAL ESTATE TRUST KAREN POE TRUSTEE	PO BOX 115	BROOKSVILLE	KY	41004	333/759
151	NEWSOME HAROLD W & MARIE	3468 MINERVA TUCKAHOE ROAD	DOVER	KY	41034	195/428
152	NEWSOME HAROLD & MARIE	3468 MINERVA TUCKAHOE ROAD	DOVER	KY	41034	228/183
153	KISKADEN JERRY & DEBBIE	31095 KY 435	DOVER	KY	41034	226/613
154	KISKADEN JERRY & DEBBIE	31095 KY 435	DOVER	KY	41034	317/607
155	MINEER RONALD C/O PAMELA & NORMAN RILEY	31094 KY 435	DOVER	KY	41034	331/444
156	WOODS DOLLY	240 LAKE CHARLES ROAD	MAYSVILLE	KY	41056	305/080
157	SALAZAR BESSIE & RICHARD	57 GROVER CRISWELL ROAD	CYNTHIANA	KY	41031	N/A
158	GILLESPIE MICHAEL WM JR & JANE A TIC	31080 KY 435	DOVER	KY	41034	197/569
159	COLLINS MARTIN ANDREW & SHEILA BESS	52 EMMONS LANE	AUGUSTA	KY	41002	281/573
160	COLLINS MARTIN A	59 EMMONS LANE	AUGUSTA	KY	41002	342/662
161	HAY DONALD	531 EAST SECOND STREET	AUGUSTA	KY	41002	355/092
162	BLEVINS MARIETTA	P.O. BOX 1	MINERVA	KY	41062	177/134
163	FINN F J & DAWN C	31079 KY 435	DOVER	KY	41034	260/199
164	ADAMS PAMELA R	31075 KY 435	DOVER	KY	41034	241/115
165	HAY DONALD T LAND CONTRACT: MIKE & SHARON SANDLIN	31077 KY 435	DOVER	KY	41034	360/643
166	SCHILTZ LLOYD G	31078 KY 435	DOVER	KY	41034	260/413
167	HEHR JOHN COOPER & CANDY SUE	31073 KY 435	DOVER	KY	41034	239/349
168	KIRK ROBERT J & VALERIE	31071 KY 435	DOVER	KY	41034	291/295
169	HARGETT FREDRICK J	31059 KY HWY 435	DOVER	KY	41034	284/101
170	FRANK HEIDE E	873 TIMBERLAKE COURT	DAYTON	OH	45429	292/611
171	FRANK HEIDE E	873 TIMBERLAKE COURT	DAYTON	OH	45429	292/611
172	GARRISON DANNY & JANET LYNN	31008 KY 435	DOVER	KY	41034	305/625
173	MCGURIE KEVIN CHRIS AND ALLISON	31059 KY 435	DOVER	KY	41034	256/146
174	MCGURIE KEVIN CHRIS AND ALLISON	31059 KY 435	DOVER	KY	41034	256/146
175	WATER - WESTERN MASON COUNTY	N/A	DOVER	KY	41034	235/251
176	WEISS MARK A & ANNA F	31041 KY 435	DOVER	KY	41034	279/389



NOTE:

ALL PIPE SHALL BE CLASS 250, SDR 17, UNLESS OTHERWISE NOTED

ALL WATER MAIN CONSTRUCTED WITHIN A 250 RADIUS OF A GAS STATION SHALL BE D.I. CL 350 W/ NITRILE GASKETS

REPLACE ALL SERVICE LINE AND METER ASSEMBLY AND RECONNECT TO NEW WATER MAIN.

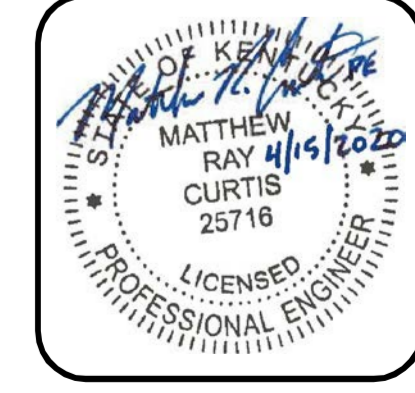
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NO.	DATE	BY	REVISIONS

**WATER SYSTEM
IMPROVEMENTS PROJECT**
AERIAL PLAN - DOVER MINERVA ROAD
STA. 10+00 TO STA. 37+00

PROJECT #:	18026
DATE:	APRIL 2020
PROJECT MGR:	LRS
DRAWN BY:	CBW
CHECKED BY:	PBR



03-01

BID SET

E:\PROJECTS\Western Mason Water District\18026 - Water System Improvements Project\DWG\18026-Dover Minerva.dwg
 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.
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NO.	DATE	REVISIONS	BY

WATER SYSTEM IMPROVEMENTS PROJECT
AERIAL PLAN - DOVER MINERVA ROAD
STA. 64+00 TO STA. 91+00


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

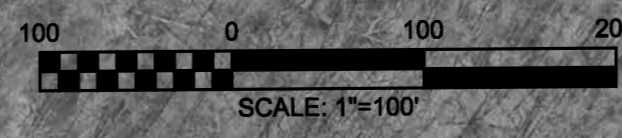
PROJECT #:	18026
DATE:	APRIL 2020
PROJECT MGR:	LRS
DRAWN BY:	CBW
CHECKED BY:	PBR



03-03

BID SET

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NOTE:

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NO.	DATE	REVISIONS	BY

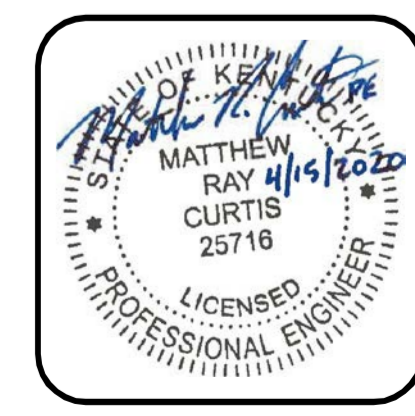
**WATER SYSTEM
IMPROVEMENTS PROJECT**

**AERIAL PLAN - DOVER MINERVA ROAD
STA. 91+00 TO STA. 122+00**

BLUEGRASS
ENGINEERING, PLLC

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

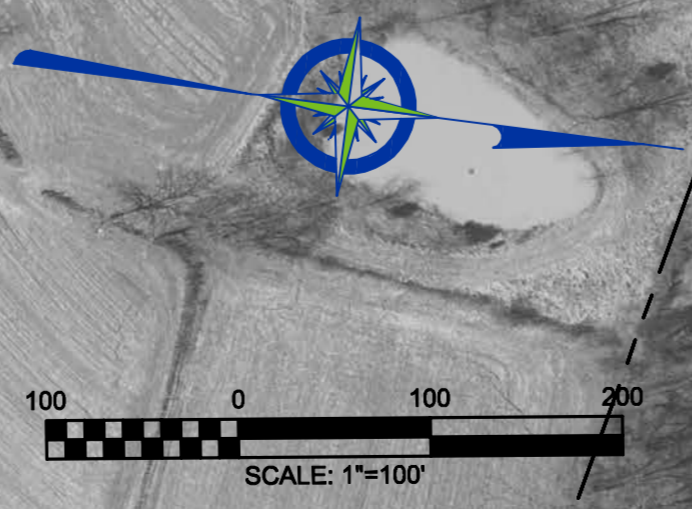
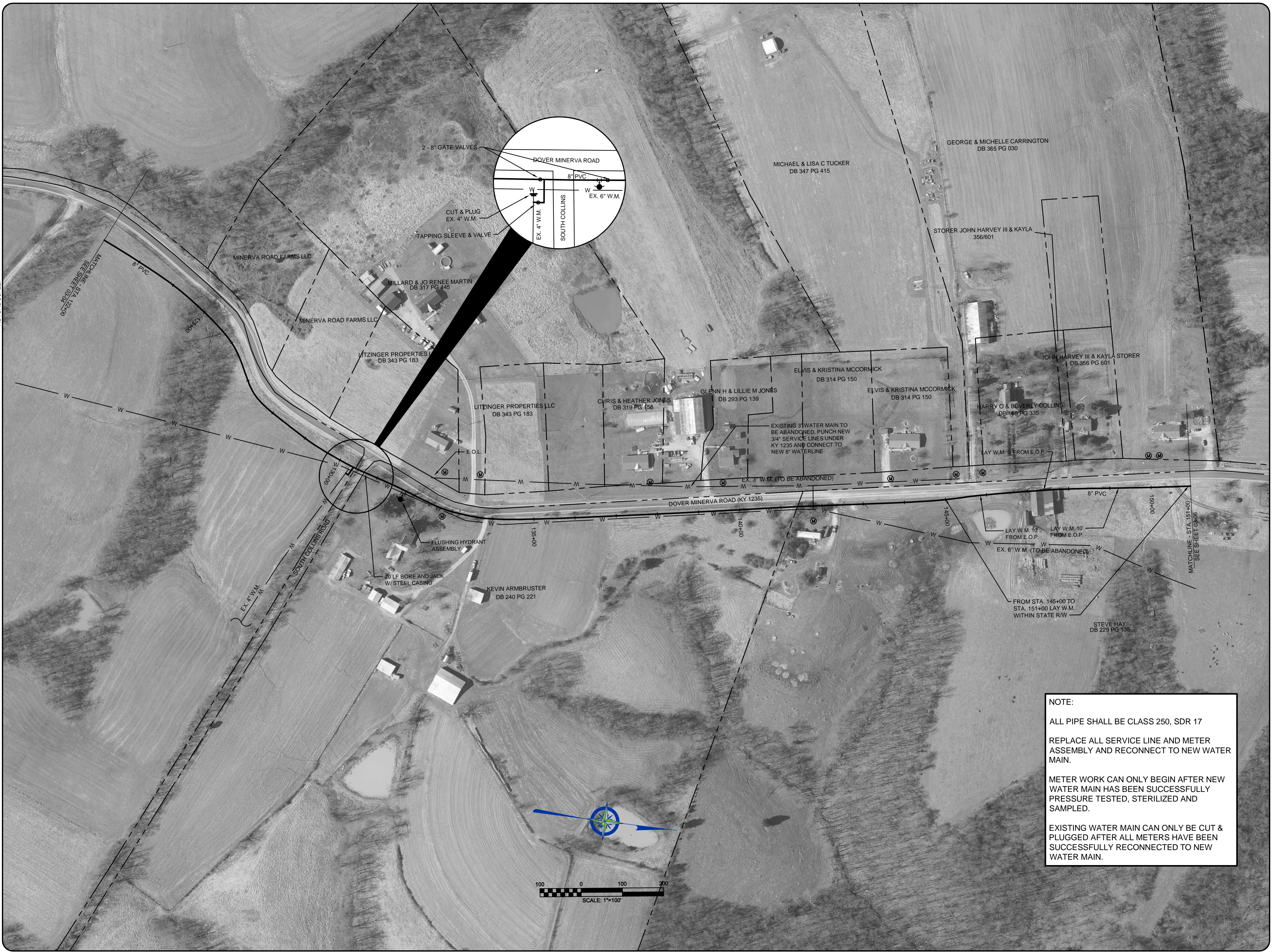
PROJECT #: 18026
 DATE: APRIL 2020
 PROJECT MGR: LRS
 DRAWN BY: CBW
 CHECKED BY: PBR



03-04

BID SET

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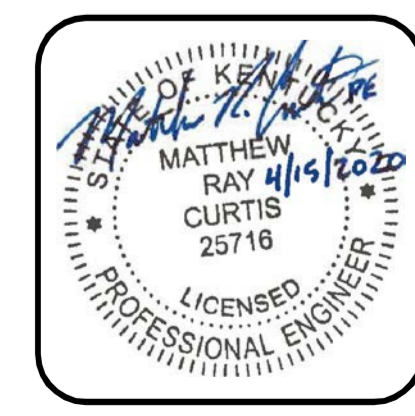
NO.	DATE	REVISIONS	BY

WATER SYSTEM IMPROVEMENTS PROJECT

**AERIAL PLAN - DOVER MINERVA ROAD
STA. 122+00 TO STA. 151+00**

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

PROJECT #:	18026
DATE:	APRIL 2020
PROJECT MGR:	LRS
DRAWN BY:	CBW
CHECKED BY:	PBR



03-05

BID SET

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 E:\PROJECTS\Western Mason Water District\18026 - Water System Improvements Project\DWG\18026-Dover Minerva.dwg
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NO.	DATE	REVISIONS	BY

WATER SYSTEM IMPROVEMENTS PROJECT
AERIAL PLAN - DOVER MINERVA ROAD
STA. 151+00 TO STA. 182+00

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

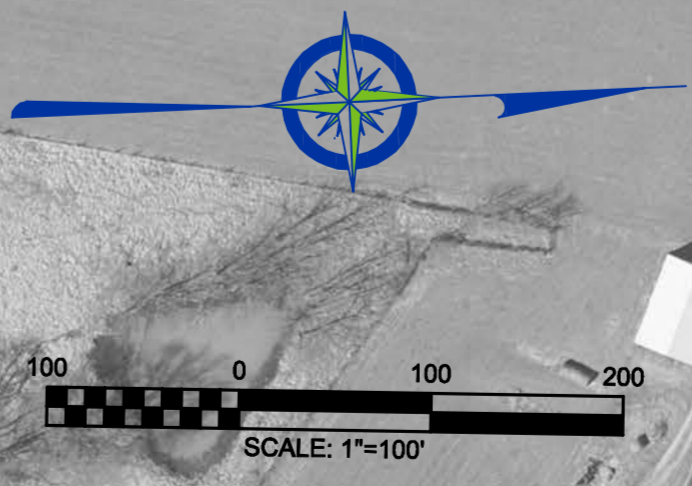
PROJECT #: 18026
 DATE: APRIL 2020
 PROJECT MGR: LRS
 DRAWN BY: CBW
 CHECKED BY: PBR



03-06

BID SET

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NOTE:

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NO.	DATE	REVISIONS	BY

WATER SYSTEM IMPROVEMENTS PROJECT

AERIAL PLAN - DOVER MINERVA ROAD
STA. 182+00 TO STA. 211+77

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

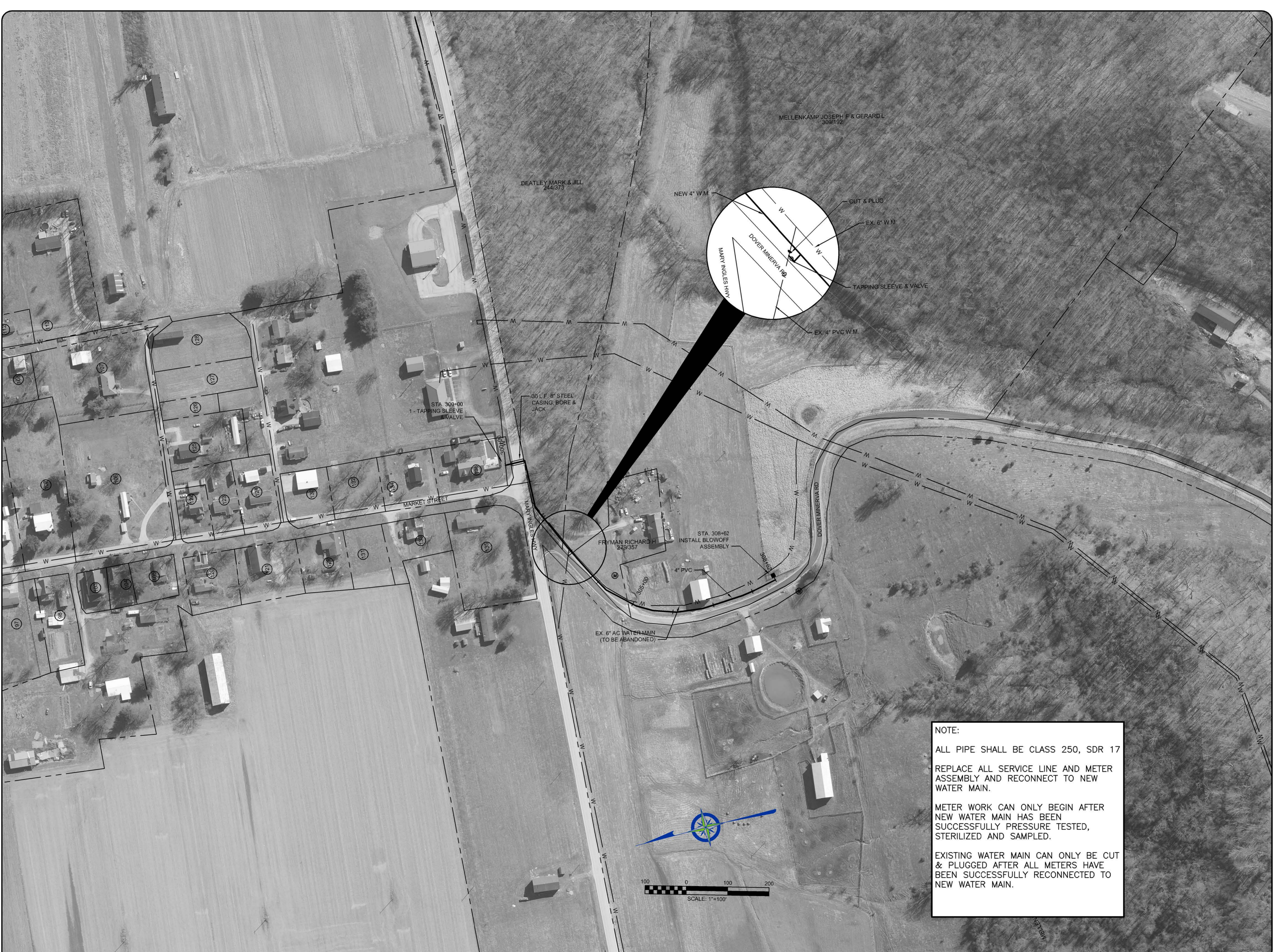
PROJECT #: 18026
 DATE: APRIL 2020
 PROJECT MGR: LRS
 DRAWN BY: CBW
 CHECKED BY: PBR

Matthew Ray Curtis
 MATTHEW RAY CURTIS
 25718
 LICENSED PROFESSIONAL ENGINEER

03-07

BID SET

B:\PROJECTS\Western Mason Water District\18026 - Water System Improvements Project\DWG\18026-Dover Minerva.dwg
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NO.	DATE	REVISIONS	BY

WATER SYSTEM IMPROVEMENTS PROJECT
AERIAL PLAN - DOVER MINERVA ROAD
STA. 300+00 TO STA. 308+62

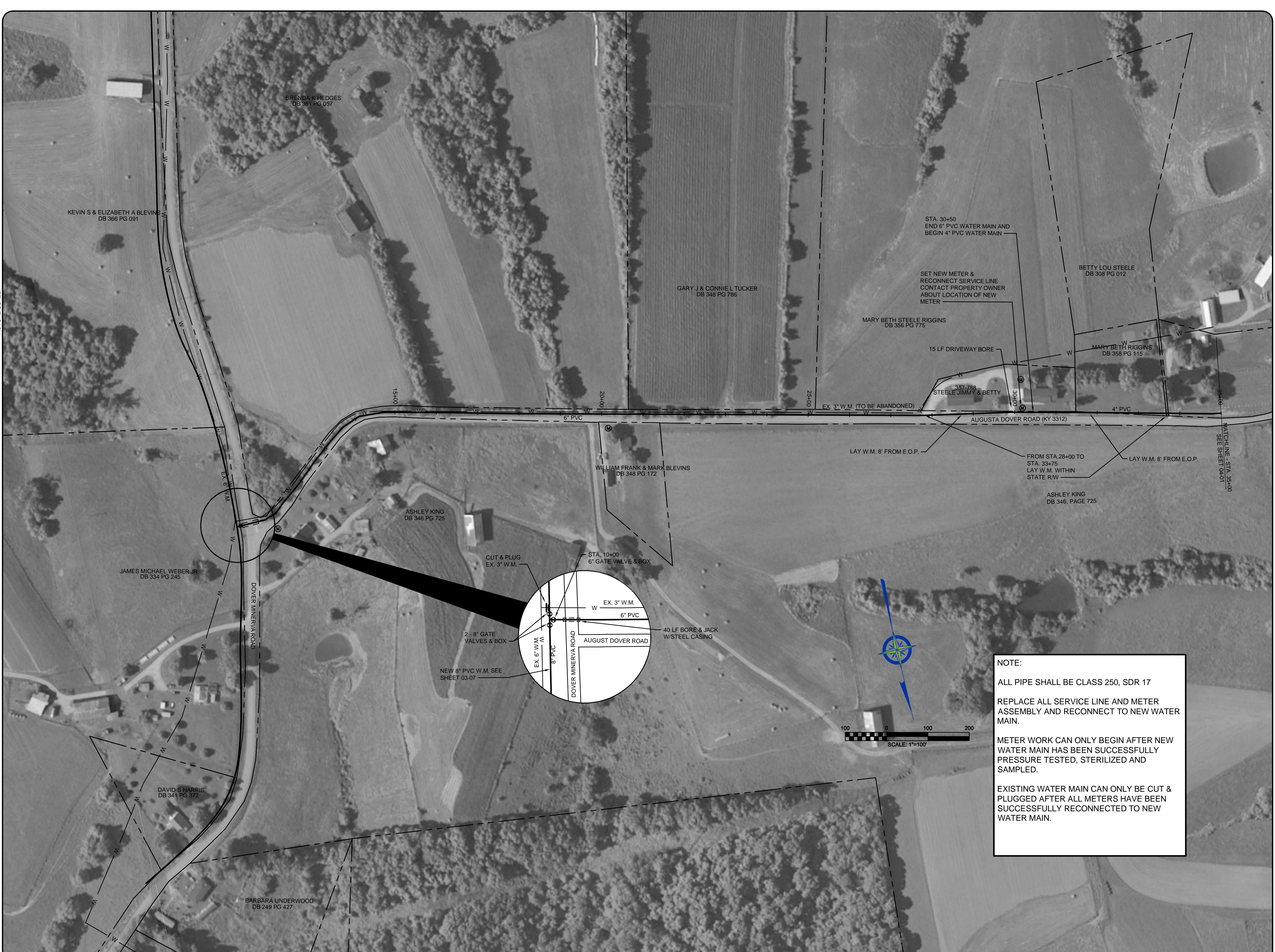
BLUEGRASS ENGINEERING PLLC
 222 East Main Street, Ste. 1 • Georgetown, KY 40324

PROJECT #:	18026
DATE:	APRIL 2020
PROJECT MGR:	LRS
DRAWN BY:	CBW
CHECKED BY:	PBR



03-08
BID SET

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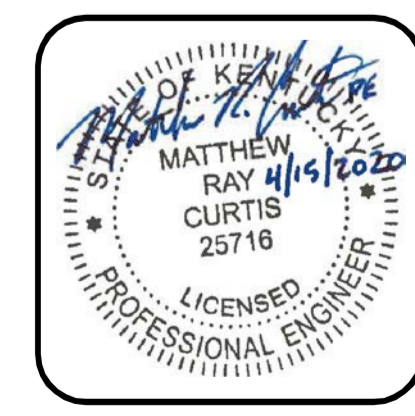
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NO.	DATE	REVISIONS	BY

**WATER SYSTEM
IMPROVEMENTS PROJECT**
AERIAL PLAN - AUGUSTA DOVER ROAD
STA. 10+00 TO STA. 35+00



PROJECT #: 18026
 DATE: APRIL 2020
 PROJECT MGR: LRS
 DRAWN BY: CBW
 CHECKED BY: PBR



04-01

BID SET

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NO.	DATE	REVISIONS	BY

**WATER SYSTEM
IMPROVEMENTS PROJECT**
AERIAL PLAN - AUGUSTA DOVER ROAD
STA. 35+00 TO STA. 70+00


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

PROJECT #: 18026
 DATE: APRIL 2020
 PROJECT MGR: LRS
 DRAWN BY: CBW
 CHECKED BY: PBR



04-02

BID SET

E:\PROJECTS\Western Mason Water District\18026 - Water System Improvements Project\DWG\18026-Augusta Dover.dwg
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NO.	DATE	REVISIONS	BY

**WATER SYSTEM
IMPROVEMENTS PROJECT**
**AERIAL PLAN - AUGUSTA DOVER ROAD
STA. 70+00 TO STA. 104+00**



PROJECT #:	18026
DATE:	APRIL 2020
PROJECT MGR:	LRS
DRAWN BY:	CBW
CHECKED BY:	PBR



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NO.	DATE	REVISIONS	BY

**WATER SYSTEM
IMPROVEMENTS PROJECT**
AERIAL PLAN - AUGUSTA DOVER ROAD
STA. 104+00 TO STA. 139+00

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

PROJECT #:	18026
DATE:	APRIL 2020
PROJECT MGR:	LRS
DRAWN BY:	CBW
CHECKED BY:	PBR



04-04

BID SET

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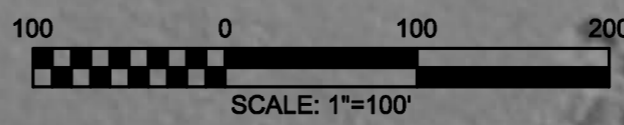
NOTE:

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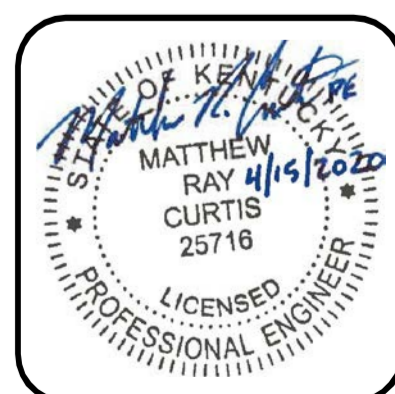


NO.	DATE	REVISIONS	BY

**WATER SYSTEM
IMPROVEMENTS PROJECT**
AERIAL PLAN - AUGUSTA DOVER ROAD
STA. 139+00 TO STA. 176+38



PROJECT #: 18026
 DATE: APRIL 2020
 PROJECT MGR: LRS
 DRAWN BY: CBW
 CHECKED BY: PBR



04-05

BID SET

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NO.	DATE	REVISIONS	BY

**WATER SYSTEM
IMPROVEMENTS PROJECT**
AERIAL PLAN - SOUTH COLLINS ROAD
STA. 10+00 TO STA. 42+27



PROJECT #:	18026
DATE:	APRIL 2020
PROJECT MGR:	LRS
DRAWN BY:	CBW
CHECKED BY:	PBR



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 E:\PROJECTS\Western Mason Water District\18026 - Water System Improvements Project\DWG\18026-Highway435.dwg



NOTE:

ALL PIPE SHALL BE CLASS 250, SDR 17

REPLACE ALL SERVICE LINE AND METER ASSEMBLY AND RECONNECT TO NEW WATER MAIN.

METER WORK CAN ONLY BEGIN AFTER NEW WATER MAIN HAS BEEN SUCCESSFULLY PRESSURE TESTED, STERILIZED AND SAMPLED.

EXISTING WATER MAIN CAN ONLY BE CUT & PLUGGED AFTER ALL METERS HAVE BEEN SUCCESSFULLY RECONNECTED TO NEW WATER MAIN.

NO.	DATE	REVISIONS	BY

**WATER SYSTEM
IMPROVEMENTS PROJECT**
AERIAL PLAN - HIGHWAY 435
STA. 11+00 TO STA. 39+00

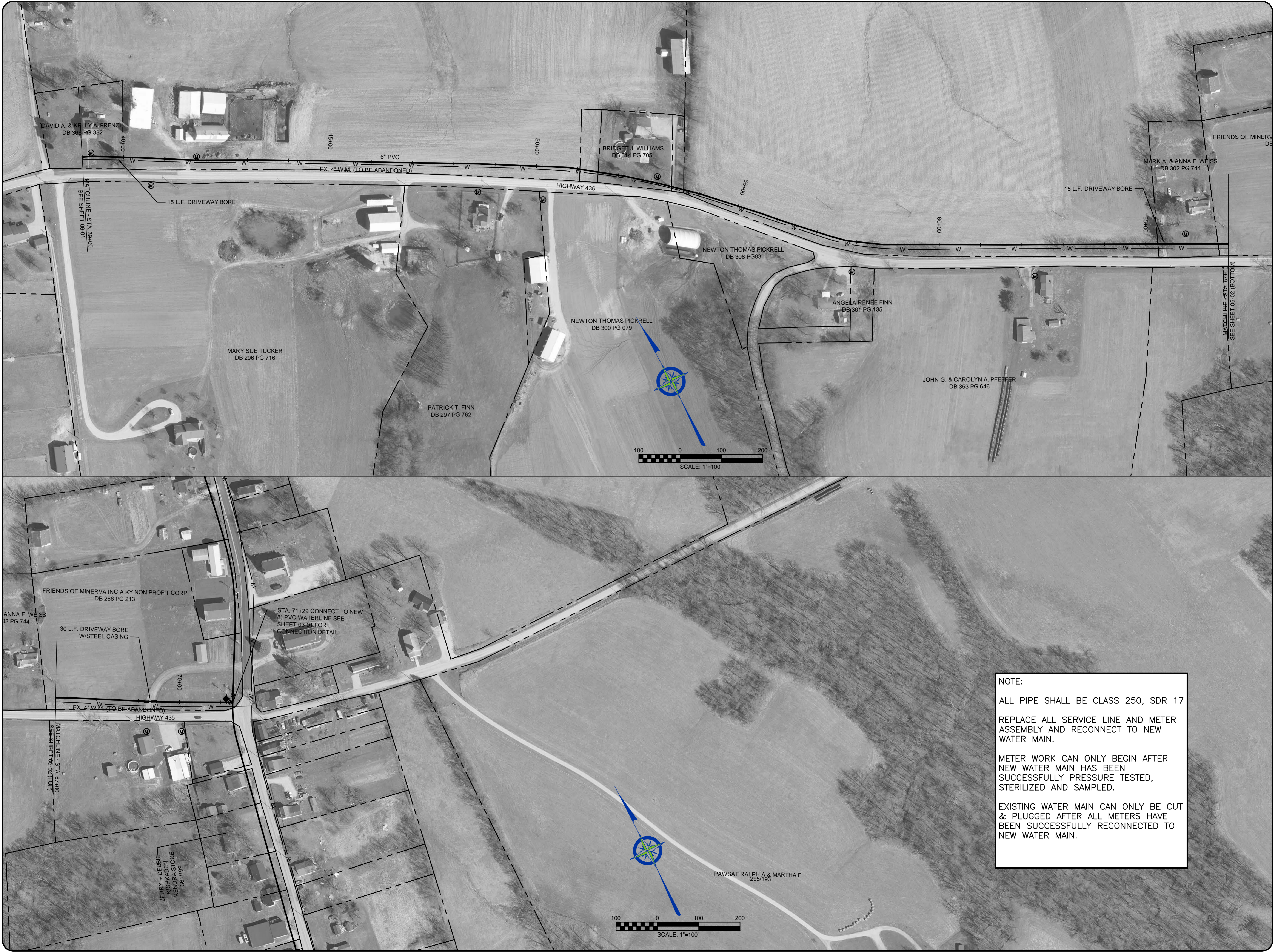


PROJECT #: 18026
 DATE: APRIL 2020
 PROJECT MGR: LRS
 DRAWN BY: CBW
 CHECKED BY: PBR



06-01
BID SET

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NO.	DATE	REVISIONS	BY

WATER SYSTEM IMPROVEMENTS PROJECT

AERIAL PLAN - HIGHWAY 435
STA. 39+00 TO STA. 71+29



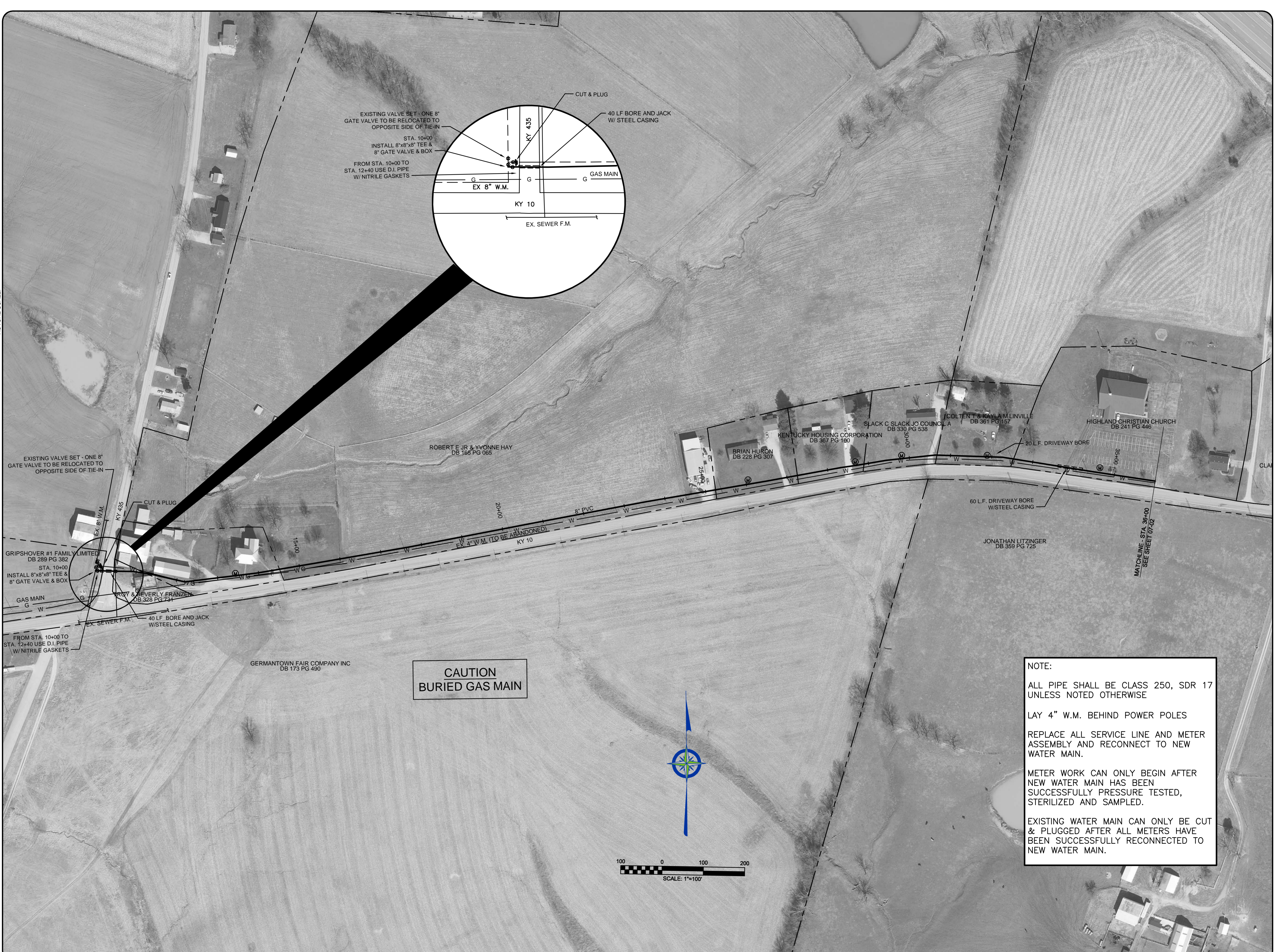
PROJECT #: 18026
 DATE: APRIL 2020
 PROJECT MGR: LRS
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06-02

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**CAUTION
BURIED GAS MAIN**

NOTE:

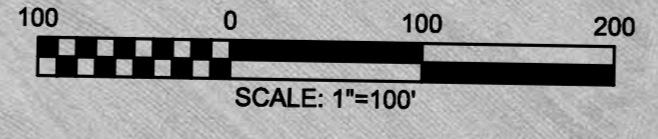
ALL PIPE SHALL BE CLASS 250, SDR 17 UNLESS NOTED OTHERWISE

LAY 4" W.M. BEHIND POWER POLES

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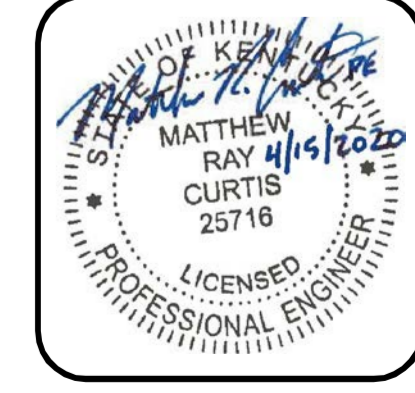
NO.	DATE	REVISIONS	BY

**WATER SYSTEM
IMPROVEMENTS PROJECT**

AERIAL PLAN - KY 10
STA. 10+00 TO STA. 36+00


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

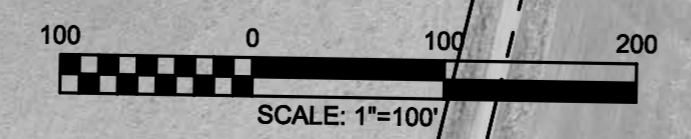
PROJECT #: 18026
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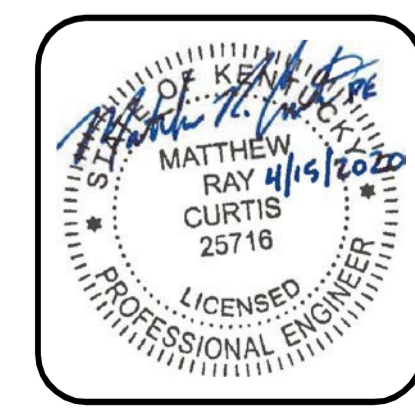
NOTE:
 ALL PIPE SHALL BE CLASS 250, SDR 17 UNLESS NOTED OTHERWISE
 LAY 4" W.M. BEHIND POWER POLES
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NO.	DATE	REVISIONS	BY

WATER SYSTEM IMPROVEMENTS PROJECT
AERIAL PLAN - KY 10
STA. 36+00 TO STA. 48+53



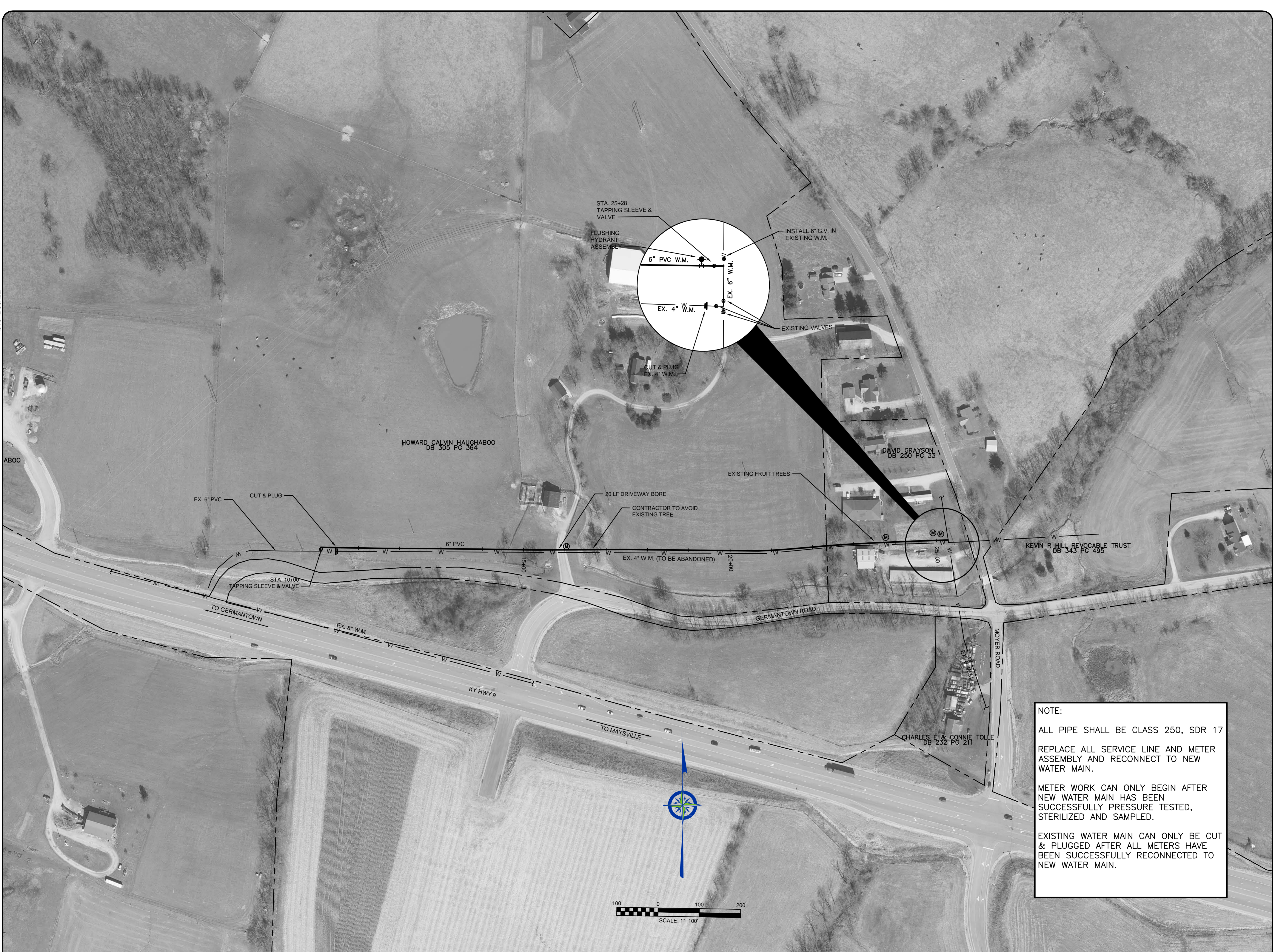
PROJECT #: 18026
 DATE: APRIL 2020
 PROJECT MGR: LRS
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NO.	DATE	REVISIONS	BY

WATER SYSTEM IMPROVEMENTS PROJECT
AERIAL PLAN - GERMANTOWN ROAD
STA. 10+00 TO STA. 25+28



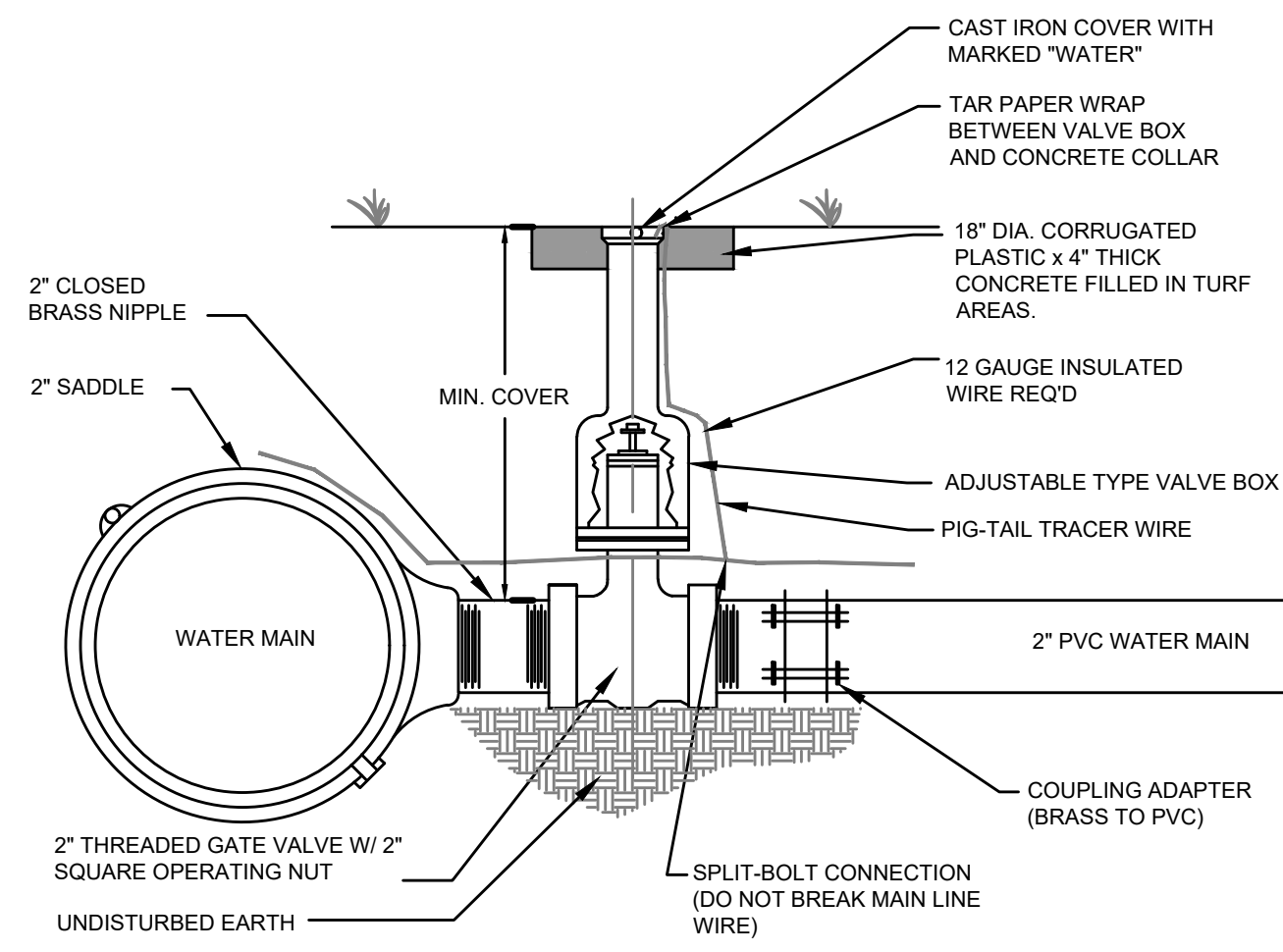
PROJECT #: 18026
 DATE: APRIL 2020
 PROJECT MGR: LRS
 DRAWN BY: CBW
 CHECKED BY: PBR



08-01

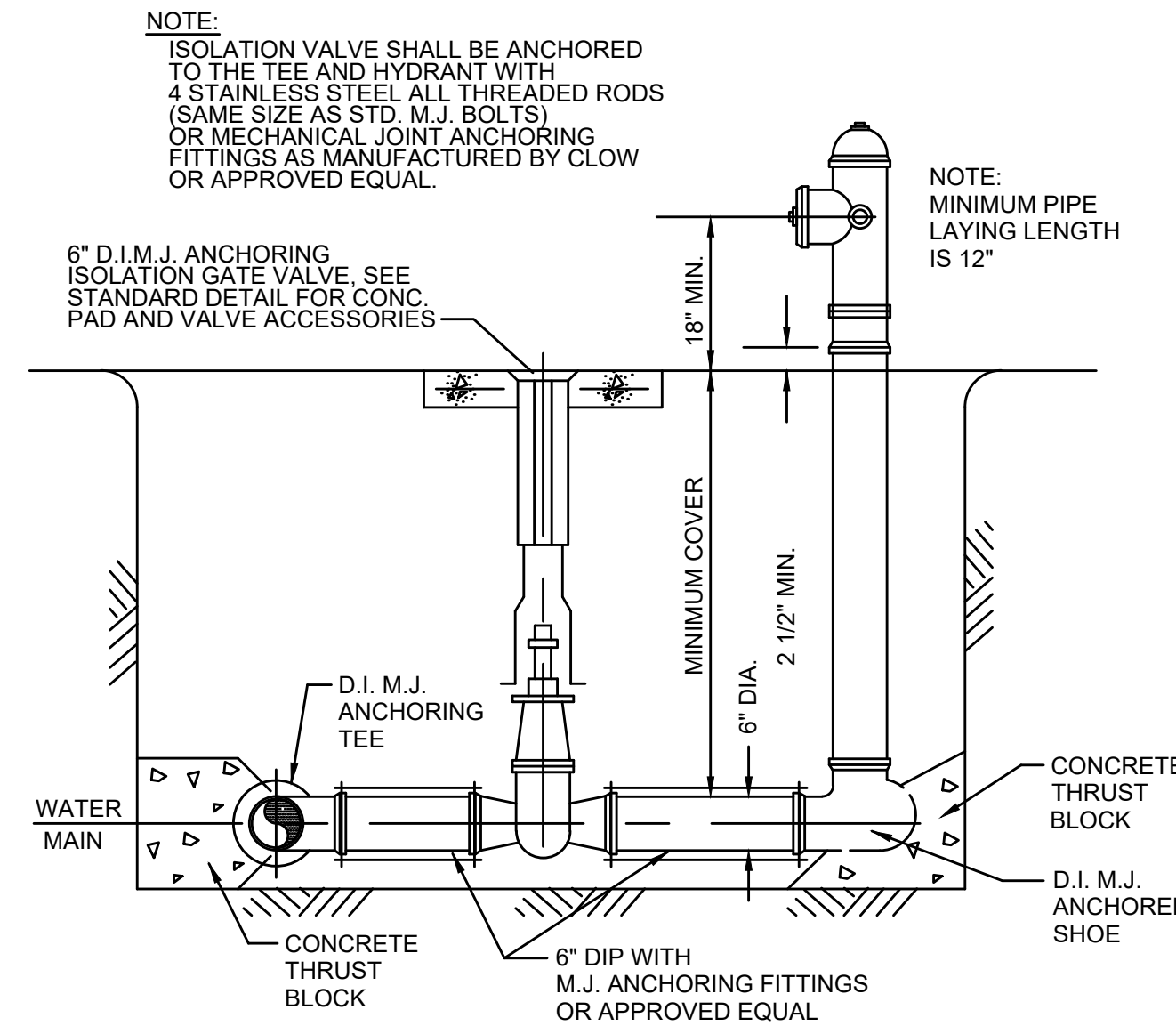
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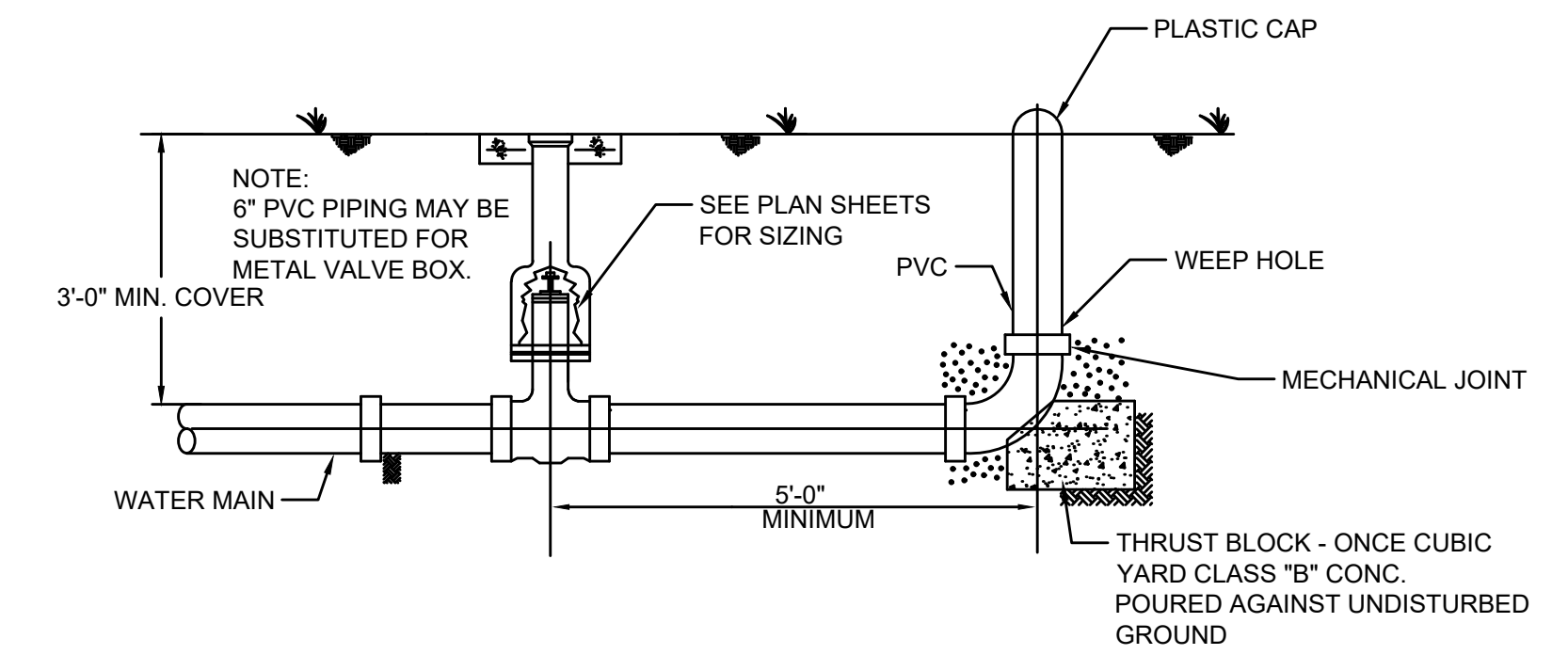
CONNECTION FOR 2" WATER MAINS

NOT TO SCALE



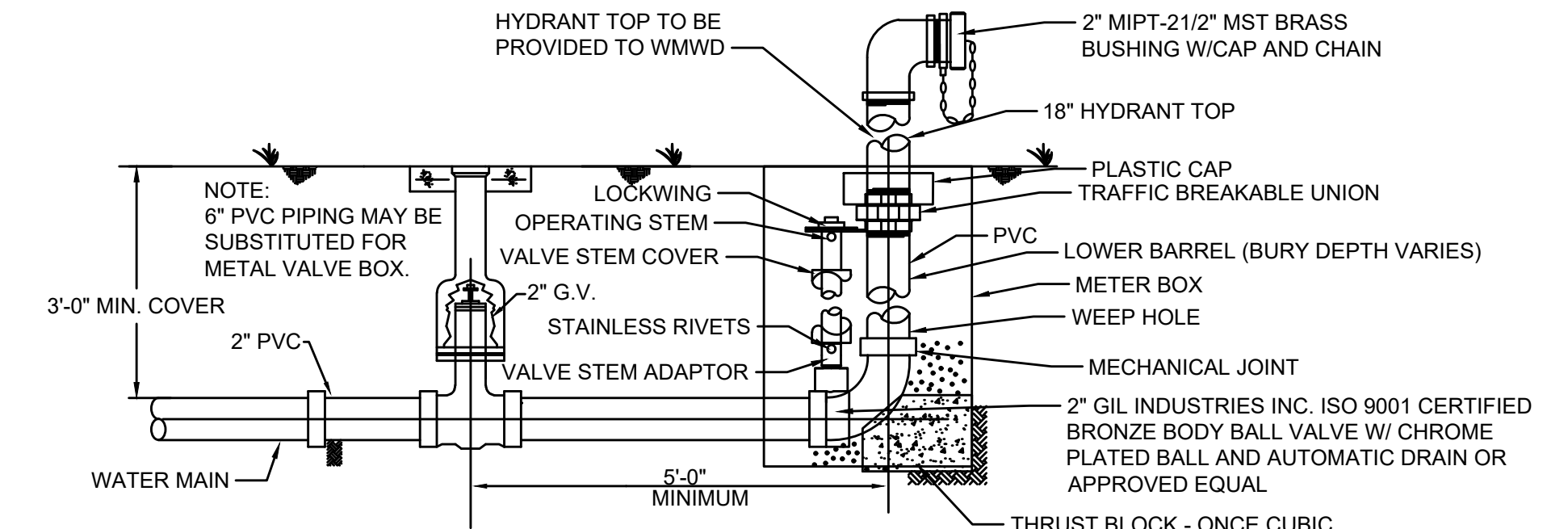
FLUSHING HYDRANT ASSEMBLY

NOT TO SCALE



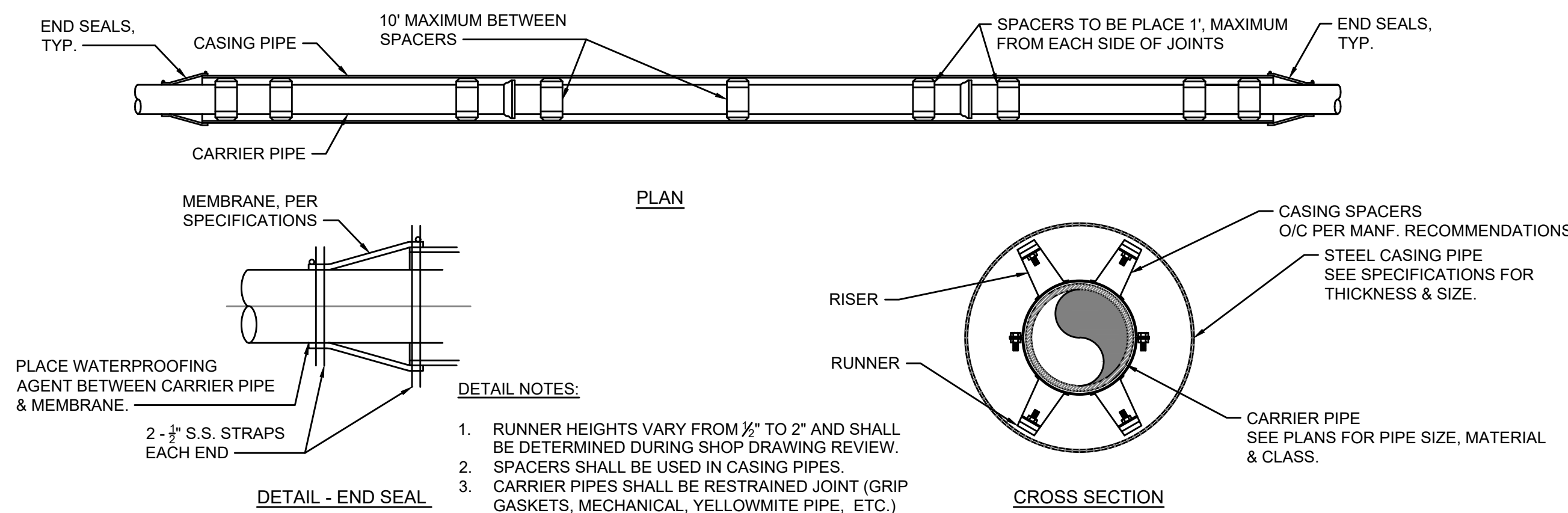
E.O.L. 3" OR 4" UNDERGROUND BLOWOFF ASSEMBLY

NOT TO SCALE



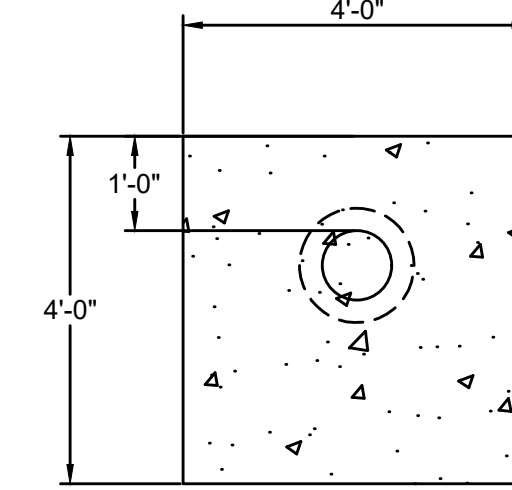
E.O.L. 2" UNDERGROUND BLOWOFF ASSEMBLY

NOT TO SCALE

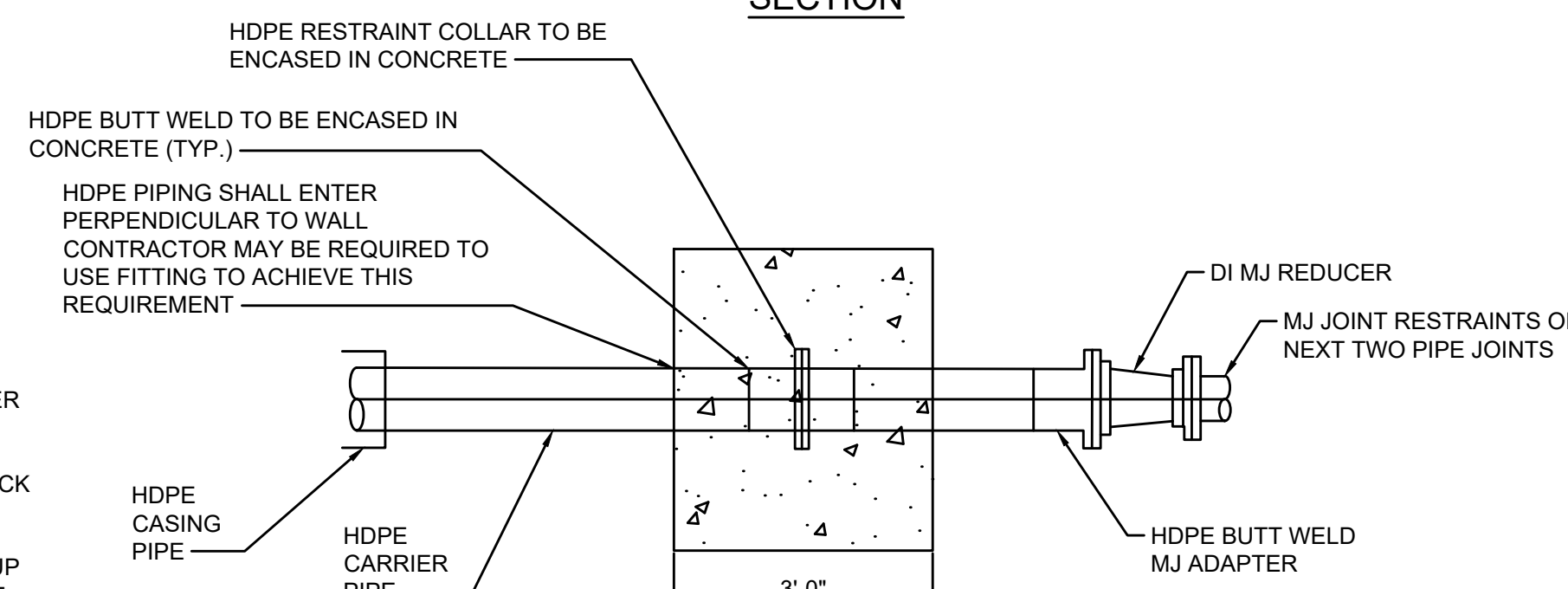


STEEL CASING - DETAIL

NOT TO SCALE



SECTION

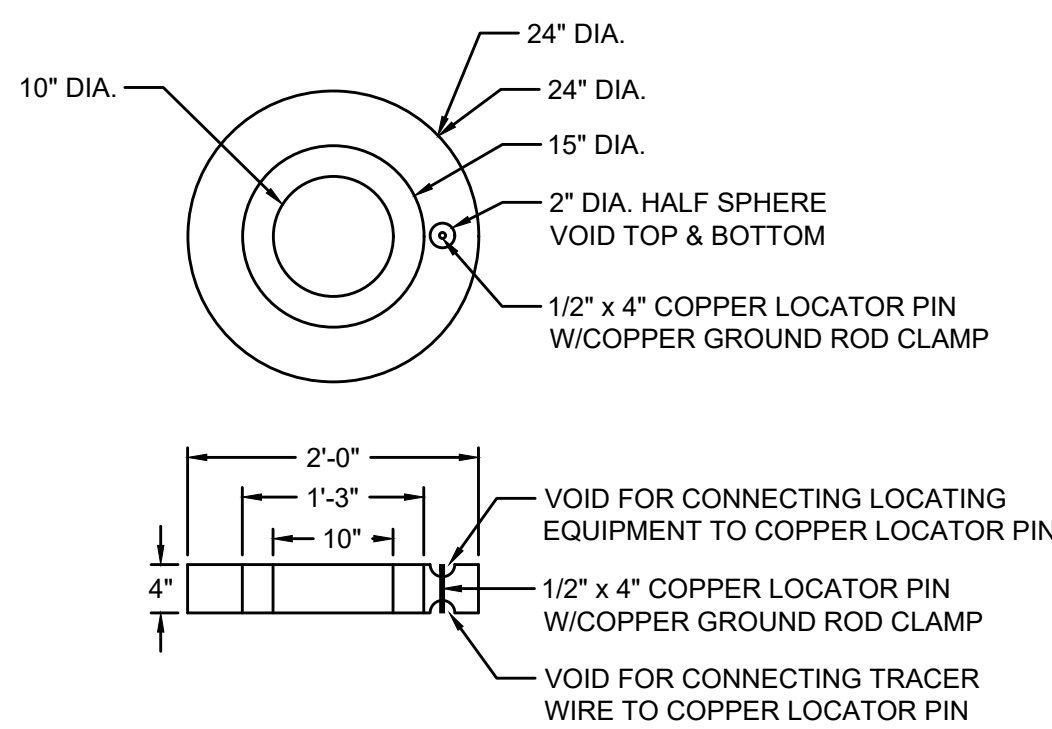


HDPE RESTRAINT WALL

NOT TO SCALE

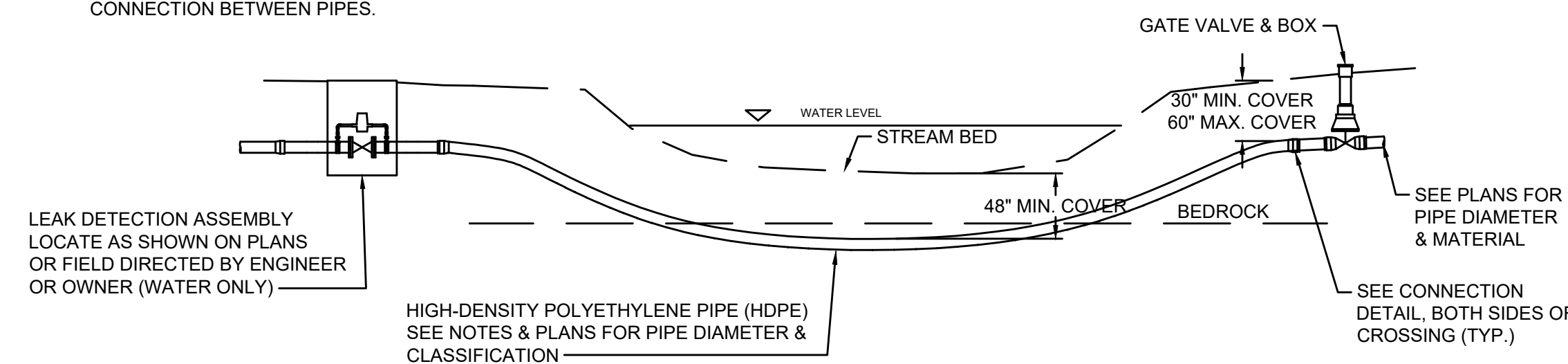
NOTES:

1. CONNECTION OF THE HDPE TO THE PVC OR DUCTILE IRON WATERLINE SHALL BE NO DEEPER THAN 5 FEET FROM THE GROUND ELEVATION.
2. DIRECTIONAL BORE SHALL BE MADE IN BED ROCK WITH A MIN DEPTH OF 36".
3. WHEN USING HDPE THE PIPE SHALL BE SIZED UP ONE PIPE SIZE TO ALLOW THE I.D. OF THE HDPE TO EQUAL THE I.D. OF THE CONNECTING WATER MAIN.
4. SEE PLANS FOR PIPE LOCATION, MATERIAL & SIZE.
5. USE ANGLED FITTINGS AS NECESSARY TO MAKE CONNECTION BETWEEN PIPES.



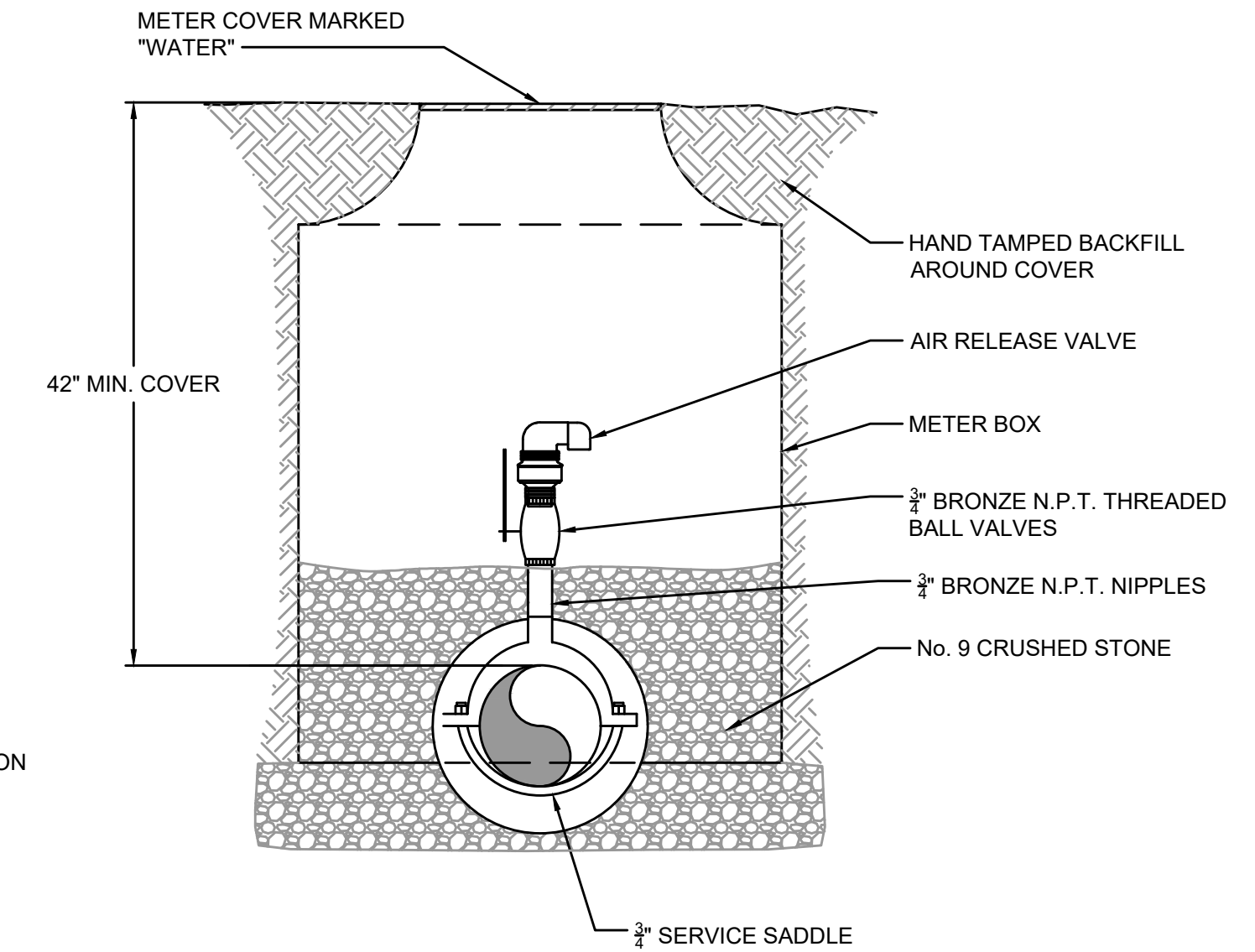
24" DIAMETER CONCRETE VALVE BOX PROTECTOR RING W/ COPPER LOCATOR PIN

NOT TO SCALE



DIRECTIONAL DRILLED CREEK CROSSING - DETAIL

NOT TO SCALE



AIR RELEASE VALVE ASSEMBLY - DETAIL

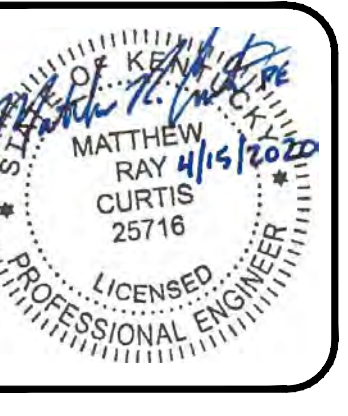
NOT TO SCALE

NO.	DATE	BY

WATER SYSTEM IMPROVEMENTS PROJECT
STANDARD DETAILS

BLUEGRASS ENGINEERING, PLLC
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PROJECT #:	18026
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DRAWN BY:	CBW
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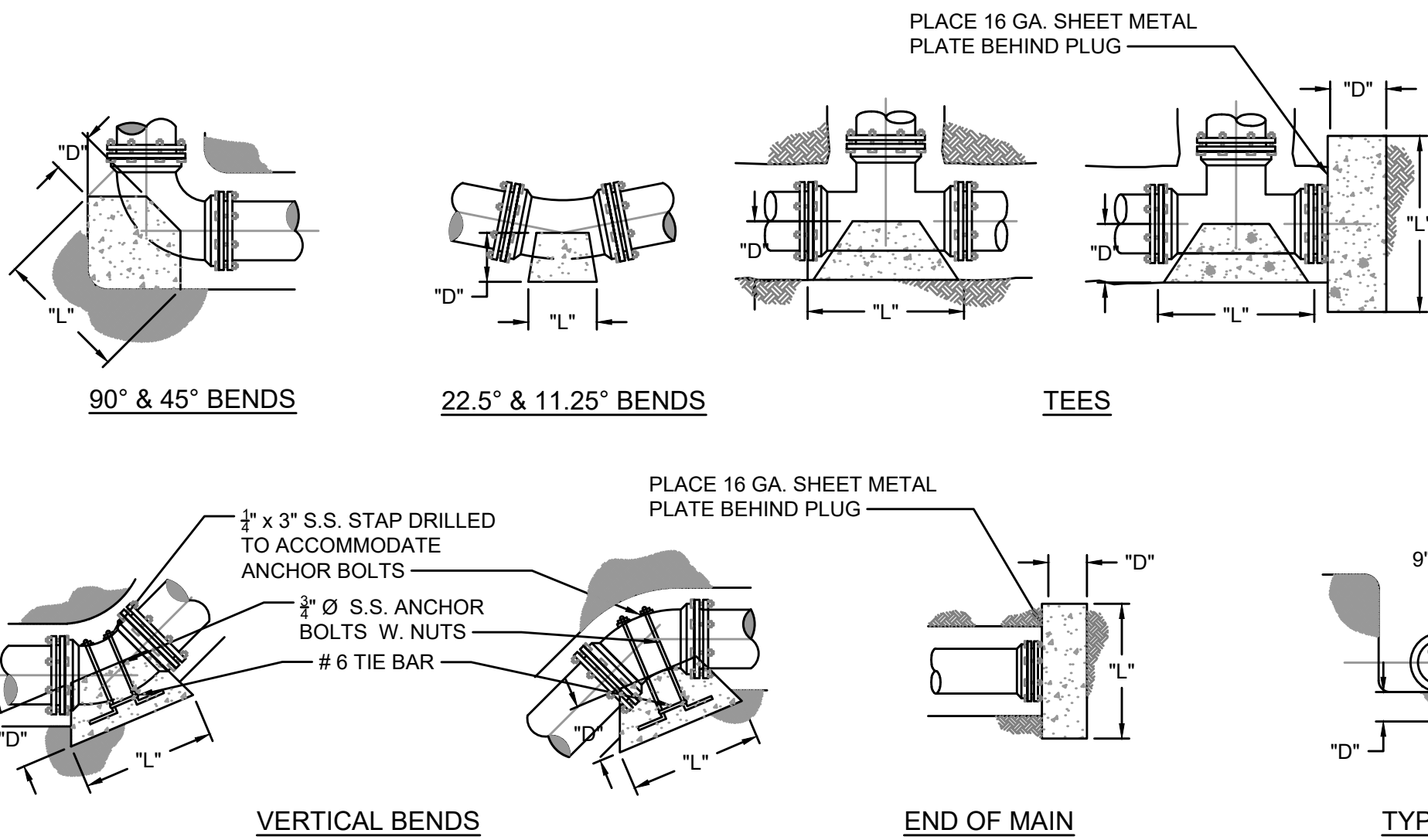
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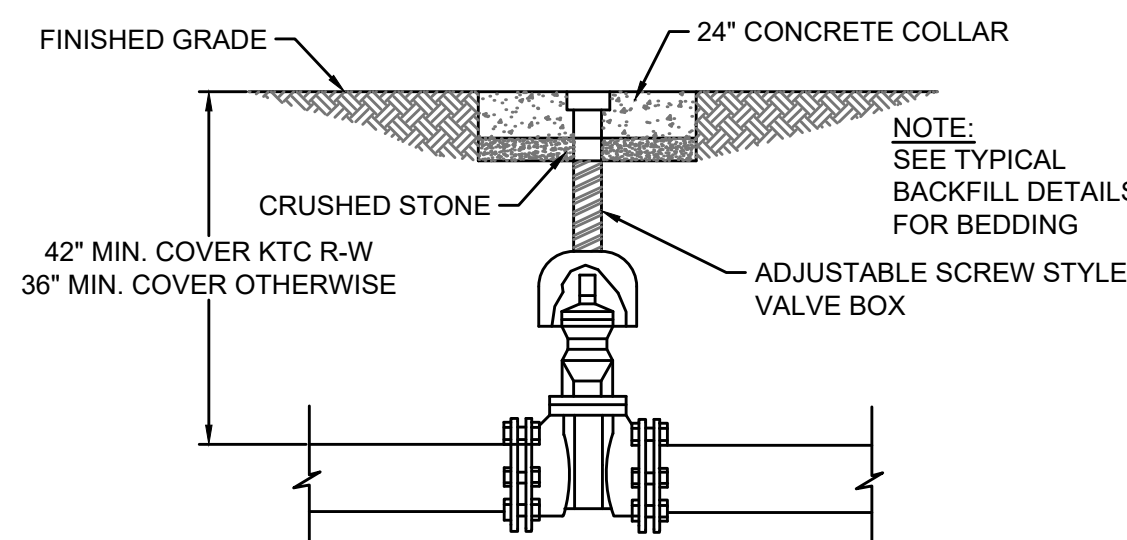
PIPE SIZE	90° BEND			45° BEND			22 1/2° BEND			11 1/2° BEND			TEE & DEAD ENDS		
	BEARING AREA	YDS OF CONCRETE	D W L	BEARING AREA	YDS OF CONCRETE	D W L	BEARING AREA	YDS OF CONCRETE	D W L	BEARING AREA	YDS OF CONCRETE	D W L	BEARING AREA	YDS OF CONCRETE	D W L
4"	3.750	.21	18 30 18	1.750	.10	18 18 14	1.000	.06	18 12 12	.500	.02	12 12 6	2.250	.13	18 18 18
6"	7.000	.39	18 42 24	3.750	.21	18 30 18	2.000	.11	18 24 12	1.000	.04	12 12 12	5.000	.28	18 30 24
8"	12.250	.91	24 42 42	7.500	.56	24 36 30	4.000	.30	24 24 24	2.000	.11	18 24 12	9.000	.67	24 36 36
10"	20.000	1.48	24 60 48	10.500	.78	24 42 36	6.000	.44	24 36 24	3.000	.17	18 24 18	14.000	1.04	24 48 42
12"	30.000	2.78	30 72 60	15.750	1.46	30 54 42	7.500	.89	30 36 30	4.000	.30	24 24 24	20.000	1.85	30 60 48
14"	39.000	4.33	36 78 72	20.000	2.22	36 60 48	10.500	1.17	36 42 36	6.000	.56	30 36 24	27.500	3.06	36 66 60
16"	49.000	6.35	42 84 84	27.500	3.56	42 66 60	14.000	1.81	42 48 42	7.500	.83	36 30 30	37.750	4.63	42 78 66

SOIL TYPE - SAND & GRAVEL
BEARING STRENGTH = 3000 PSF

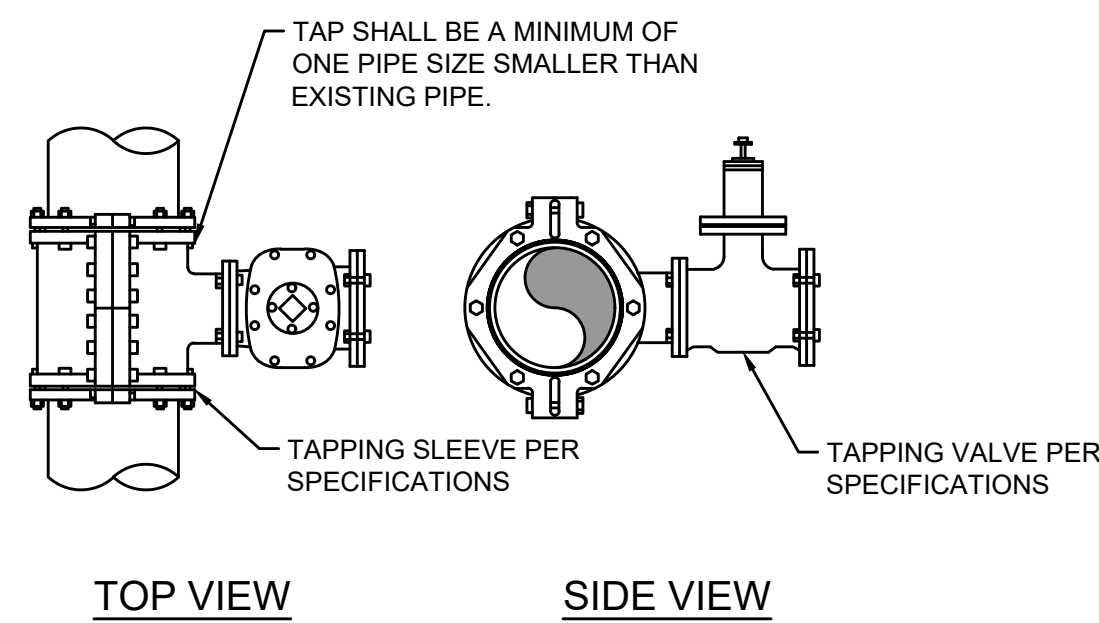


- NOTE:**
- ALL CONCRETE SHALL BE A MIN. OF 3,500 PSI
 - SEE PLAN SHEETS FOR SIZE, MATERIAL & LOCATION OF PIPE.
 - SIDES OF ALL TRENCHES TO BE UNDISTURBED SOIL.
 - SEE THIS SHEET FOR BACK FILL DETAILS.
 - DEPTH "D" MAY NOT BE SMALLER THAN SPECIFIED.
 - PIERS SHALL BE PLACED AGAINST UNDISTURBED SOIL.
 - PLACE CONCRETE ANCHORS 25' C/C.
 - M.J. FITTING(S) SHALL BE WRAPPED IN PLASTIC WRAP

CONCRETE THRUST BLOCK - DETAIL
NOT TO SCALE



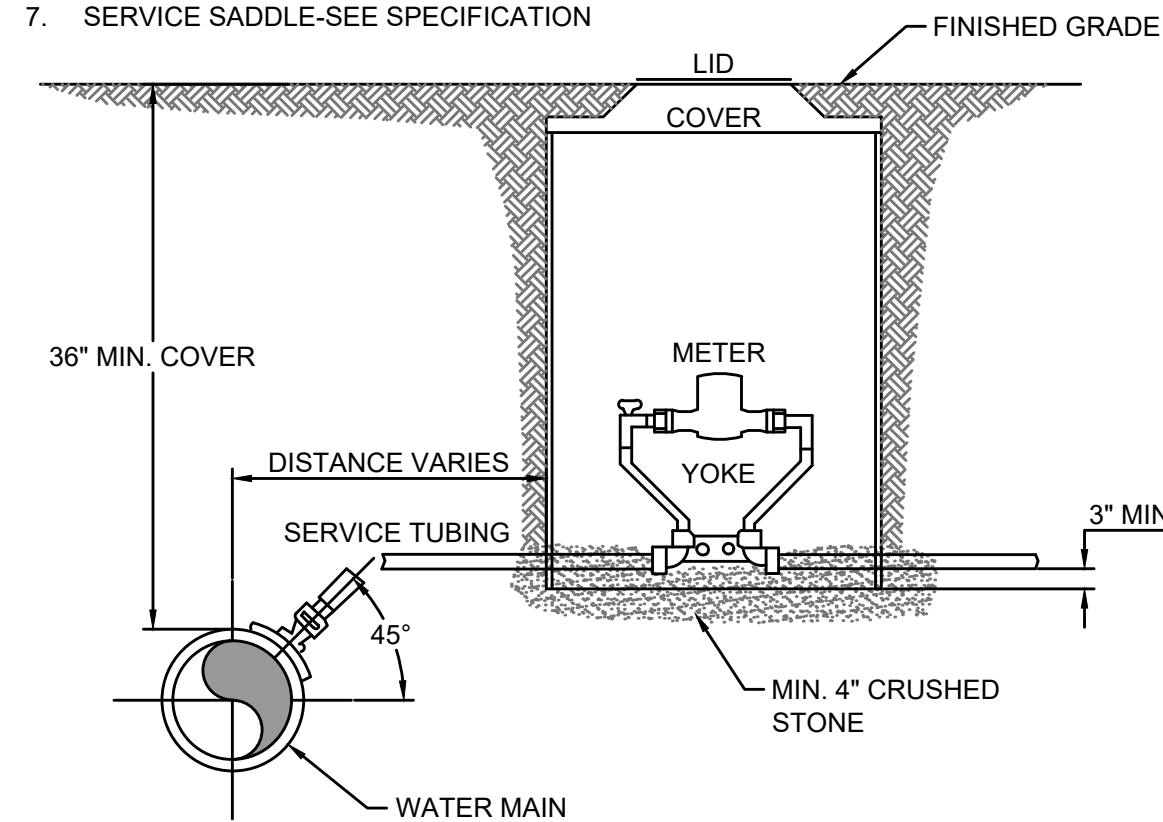
GATE VALVE ASSEMBLY - DETAIL
NOT TO SCALE



WET TAP ASSEMBLY - DETAIL
NOT TO SCALE

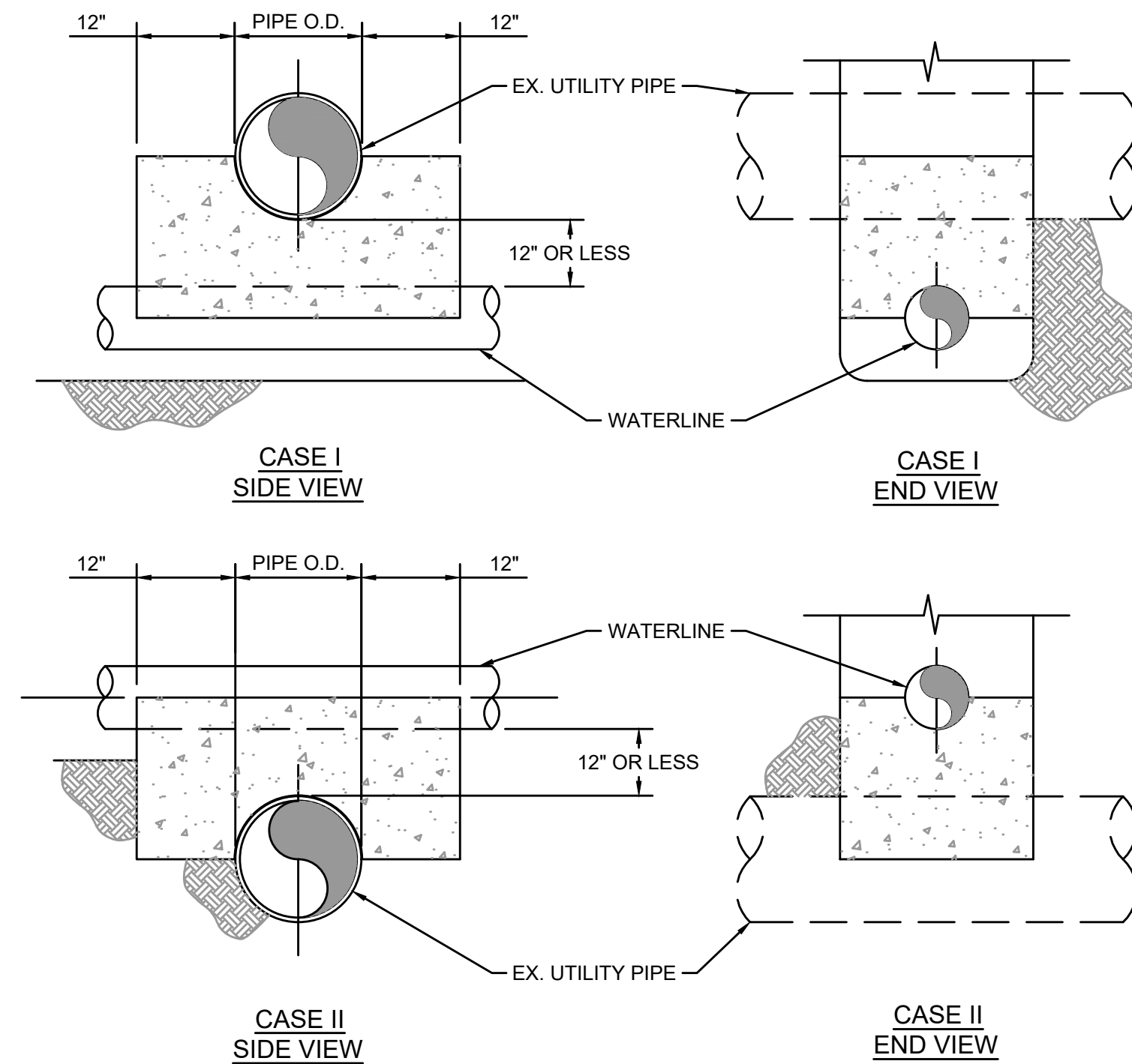
METER MATERIAL SCHEDULE

- YOKE-SEE SPECIFICATIONS
- METER BOX-SEE SPECIFICATIONS
- COVER-SEE SPECIFICATIONS
- METER-SEE SPECIFICATIONS
- INDIVIDUAL PRESSURE REDUCING VALVE (IPRV)-SEE SPECIFICATIONS
- CORPORATION STOP-SEE SPECIFICATION
- SERVICE SADDLE-SEE SPECIFICATION

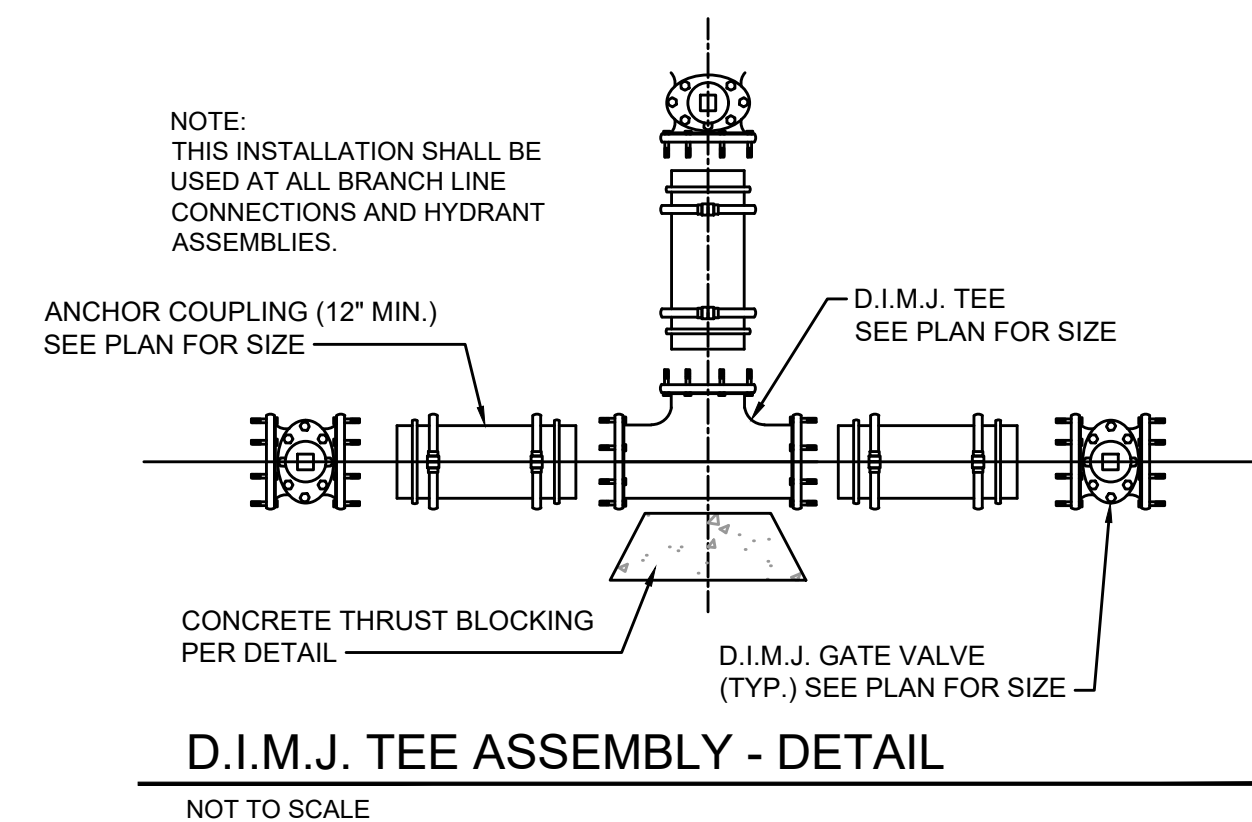


METER ASSEMBLY - DETAIL
NOT TO SCALE

- NOTES:**
- THIS DETAIL IS ONLY FOR NON-CONTAMINATE PIPE/CONDUIT. UTILITY PIPE IS DEFINED AS WATER, NATURAL GAS, TELEPHONE, ELECTRICAL CONDUITS OR STORM SEWER.
 - IF "UTILITY PIPE" IS A SANITARY SEWER PIPE (FORCE MAIN OR GRAVITY) SEE DETAIL FOR POTABLE WATER & FORCE MAIN CROSSING.
 - CONCRETE SEPARATOR SHALL BE USED WHEN CLEARANCE BETWEEN NEW WATERLINE & EXISTING UTILITY PIPE/CONDUIT IS LESS THAN 12".



UTILITY CROSSING CONCRETE ASSEMBLY - DETAIL
NOT TO SCALE



D.I.M.J. TEE ASSEMBLY - DETAIL
NOT TO SCALE

NO.	DATE	BY

WATER SYSTEM IMPROVEMENTS PROJECT
 STANDARD DETAILS

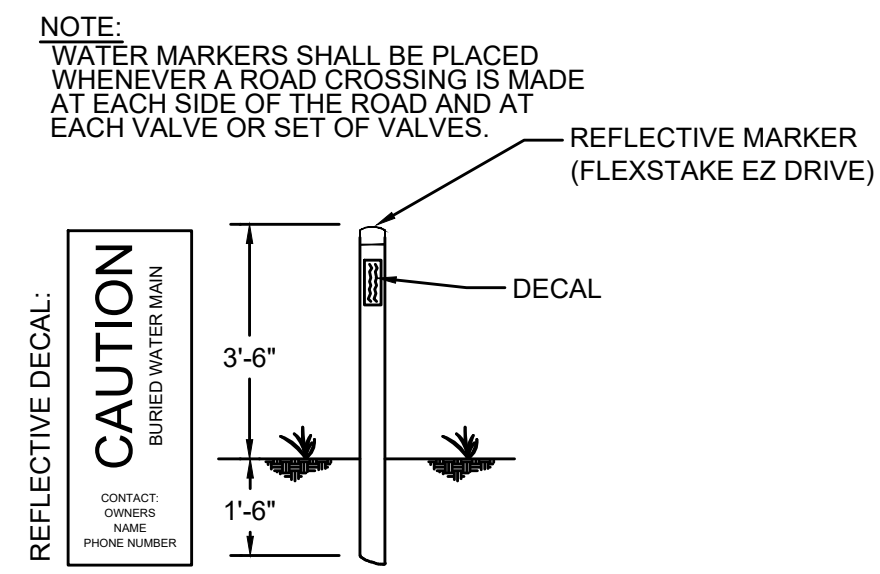
BLUEGRASS ENGINEERING, PLLC
 222 East Main Street, Ste. 1 • Georgetown, KY 40324

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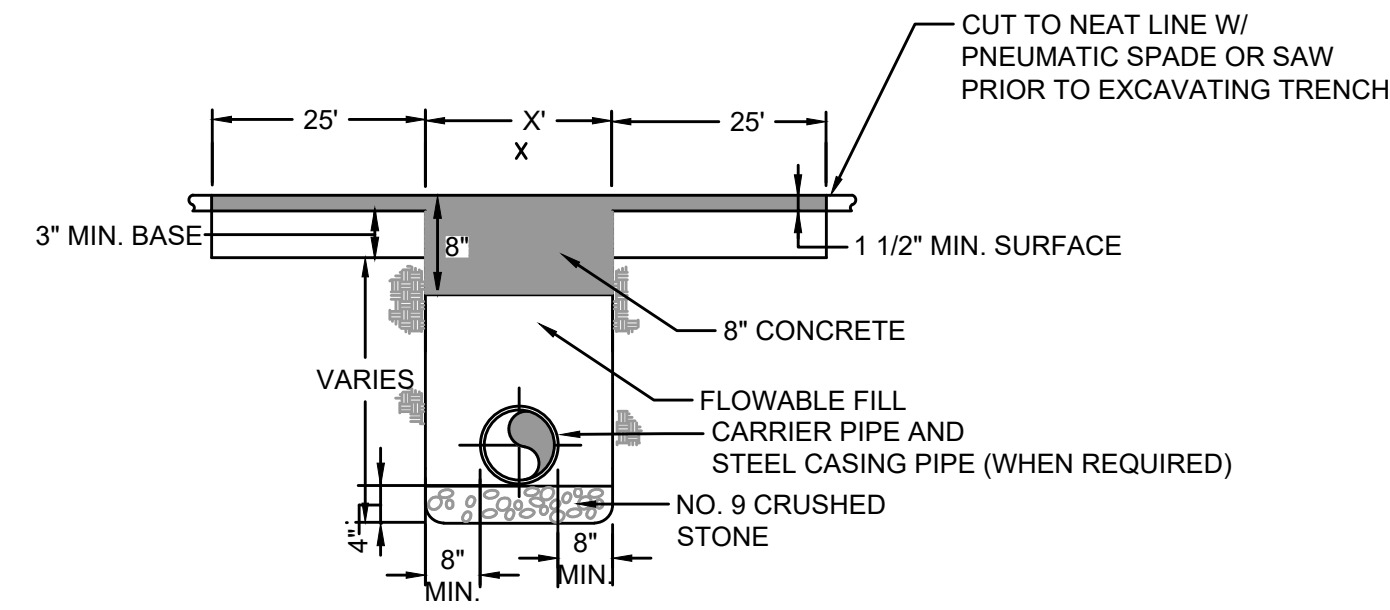


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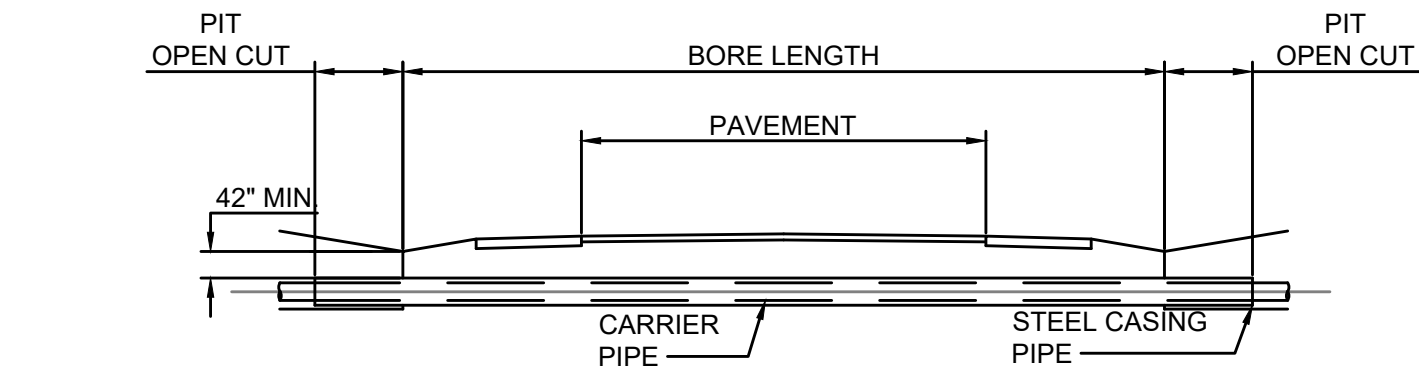


WATER MARKER DETAIL
 NOT TO SCALE

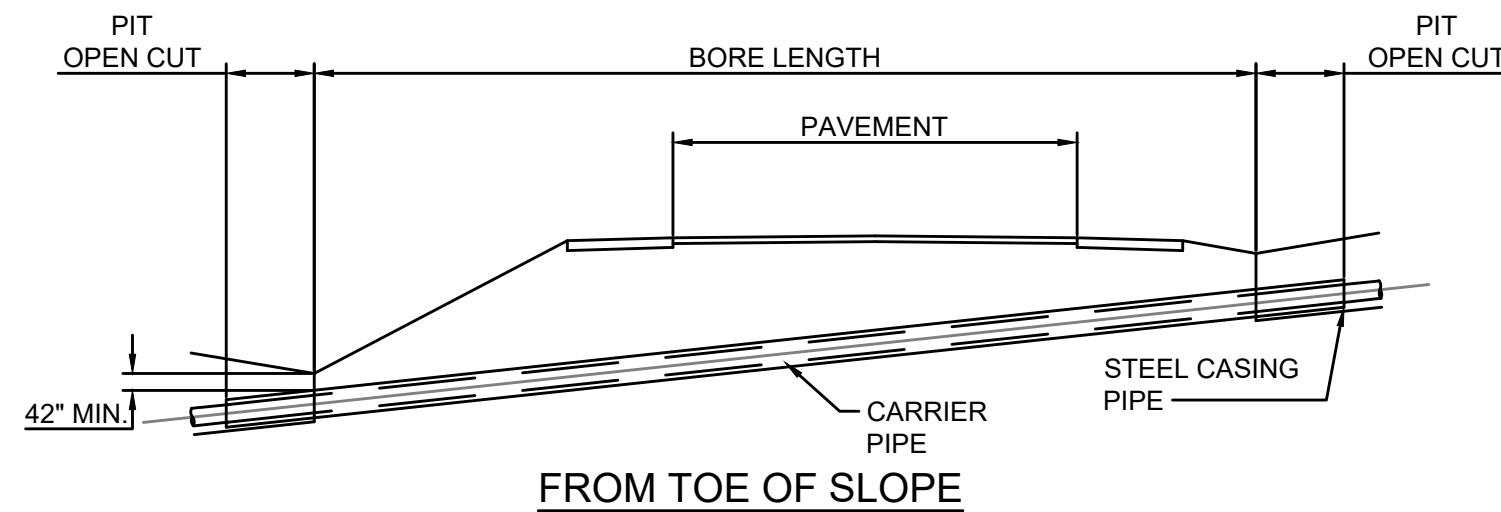


OPEN CUT DRIVEWAY BACKFILL REQUIREMENTS
 NOT TO SCALE

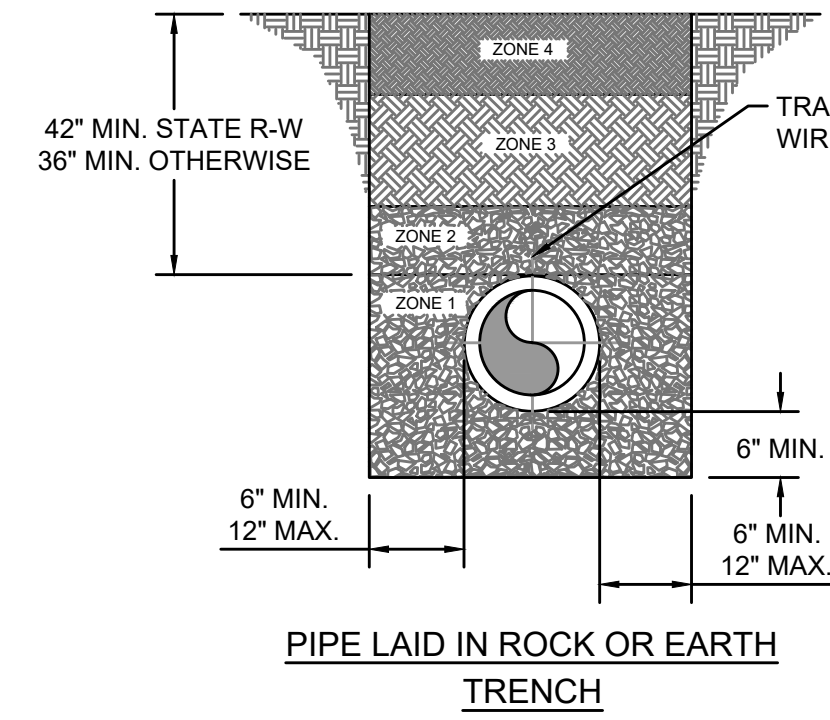
- NOTE:**
- ALL JOINTS OF STEEL CASING SHALL BE SOLIDLY WELDED. END OF CASING SHALL BE SEALED AFTER LINE HAS BEEN INSTALLED AND TESTED.
 - MINIMUM DEPTHS MAY INCREASE IN AREAS WHICH REQUIRE MINIMUM SEPARATION WITH OTHER FACILITIES.
 - OPEN TRENCH NO CLOSER THAN THE DITCHLINE OR TOE OF FILL FROM THE EDGE 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 ENCASMENT PIPE SHALL BE INSTALLED IN BORE HOLES NO LARGER THEN THE OUTSIDE DIA-METER OF THE ENCASMENT PIPE.
 - SEE CASING SPACER DETAIL FOR PLACEMENT OF SPACER.



OFFSET FROM EDGE OF PAVEMENT

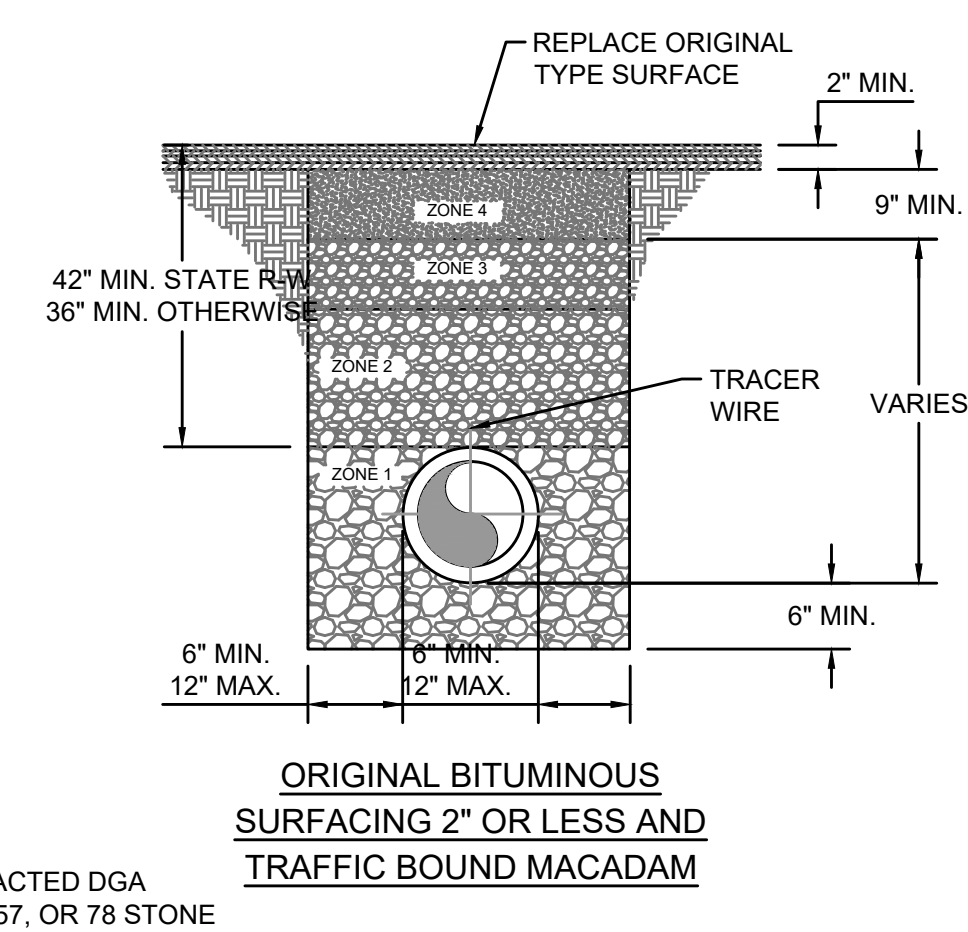
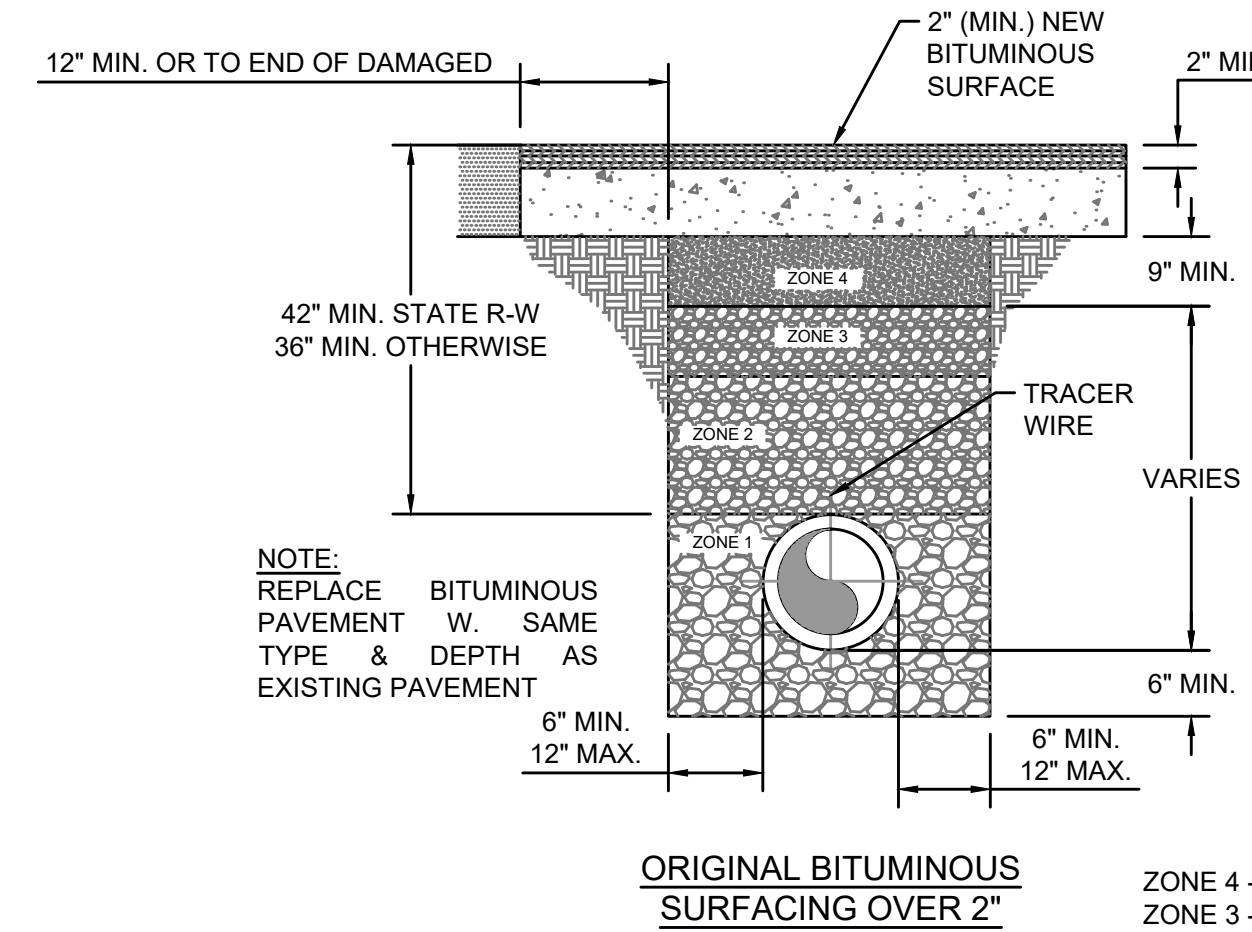


KTC CROSSING - DETAIL
 NOT TO SCALE



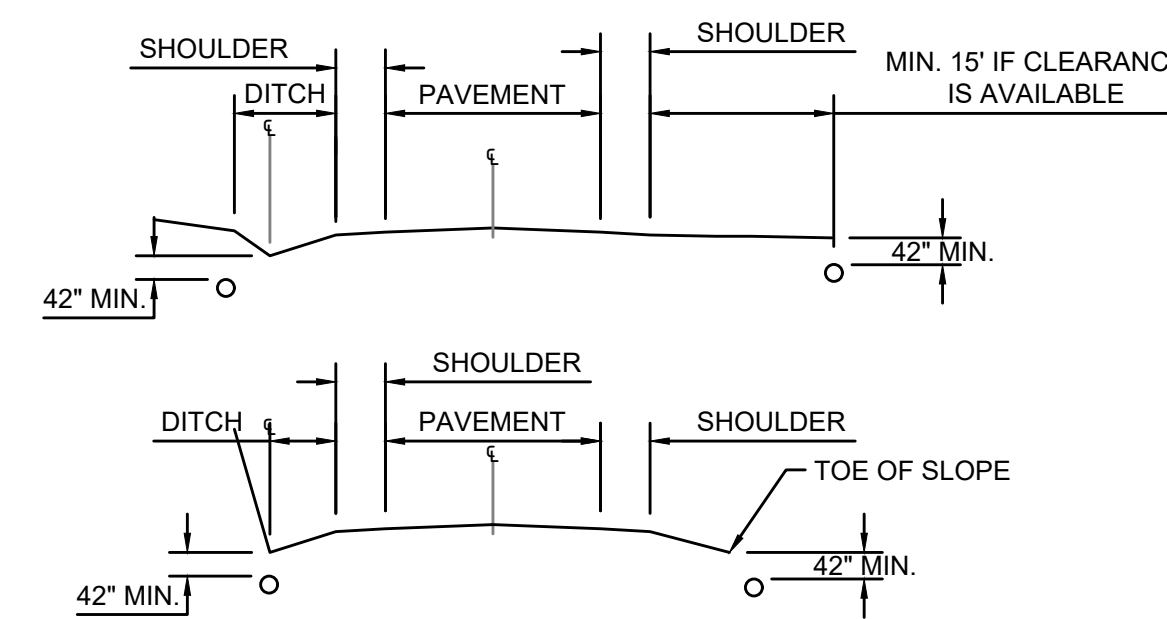
DETAIL NOTES:

- 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.



- ZONE 4 - COMPACTED DGA
- ZONE 3 - NO. 9, 57, OR 78 STONE
- ZONE 2 - 12" MIN. NO. 9 STONE
- ZONE 1 - NO. 9 STONE

PIPE BACKFILL - DETAIL
 NOT TO SCALE



UTILITY PIPELINE WITHIN KTC ROW - DETAIL
 NOT TO SCALE

NO.	DATE	BY

WATER SYSTEM IMPROVEMENTS PROJECT
STANDARD DETAILS



PROJECT #:	18026
DATE:	APRIL 2020
PROJECT MGR:	LRS
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09-03
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