

# PHASE 12 WATER SYSTEM IMPROVEMENTS

FOR THE

## RATTLESNAKE RIDGE WATER DISTRICT CONTRACT 2

AUGUST 2022

**BOARD MEMBERS**

**BILL GILBERT - CHAIRMAN**

**JASON CARROLL**

**MIKE COPLEY**

**STEVE ISON**

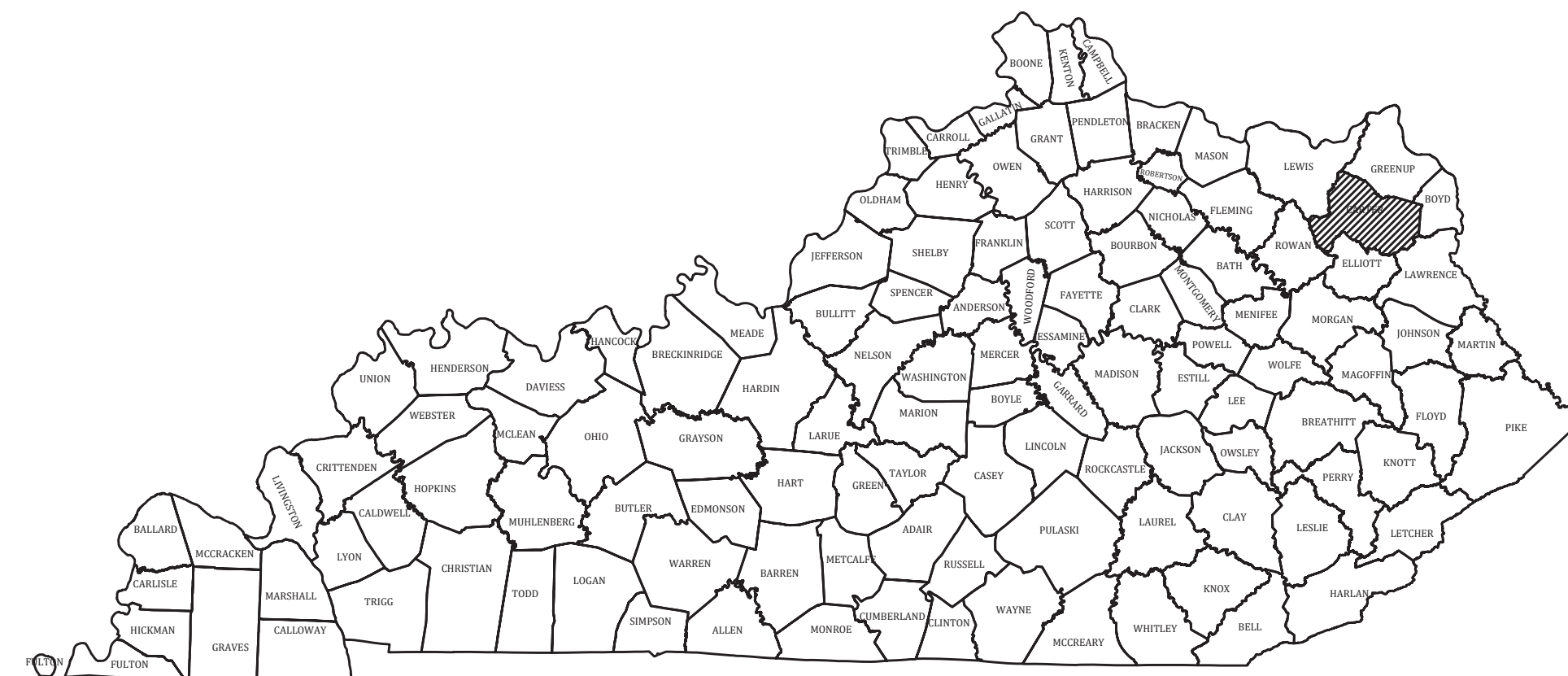
**RANDY STEAGALL**

**DAVID GIFFORD - GENERAL MANAGER**

PREPARED BY:



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



**PROJECT NO. 20002**



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BE 8/29/22

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**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 ENCASEMENT. 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 OTHER WISE 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:
  - A. 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.
  - B. 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 6" LARGER THAN CARRIER PIPE. STEEL CASING MINIMUM 6" LARGER.
- ALL EXISTING SERVICE LINE SHALL BE REPLACED W/NEW 3/4" PE CL. 250 SERVICE LINE UNLESS EXISTING LINE IS 1".
- 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.
- ALL OFFSIDE SERVICE LINE REPLACEMENTS SHALL BE INSTALLED WITH THE PIPE BURSTING METHOD.
- ALL NEW METERS SHALL BE MASTER METER RADIO READ

**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.

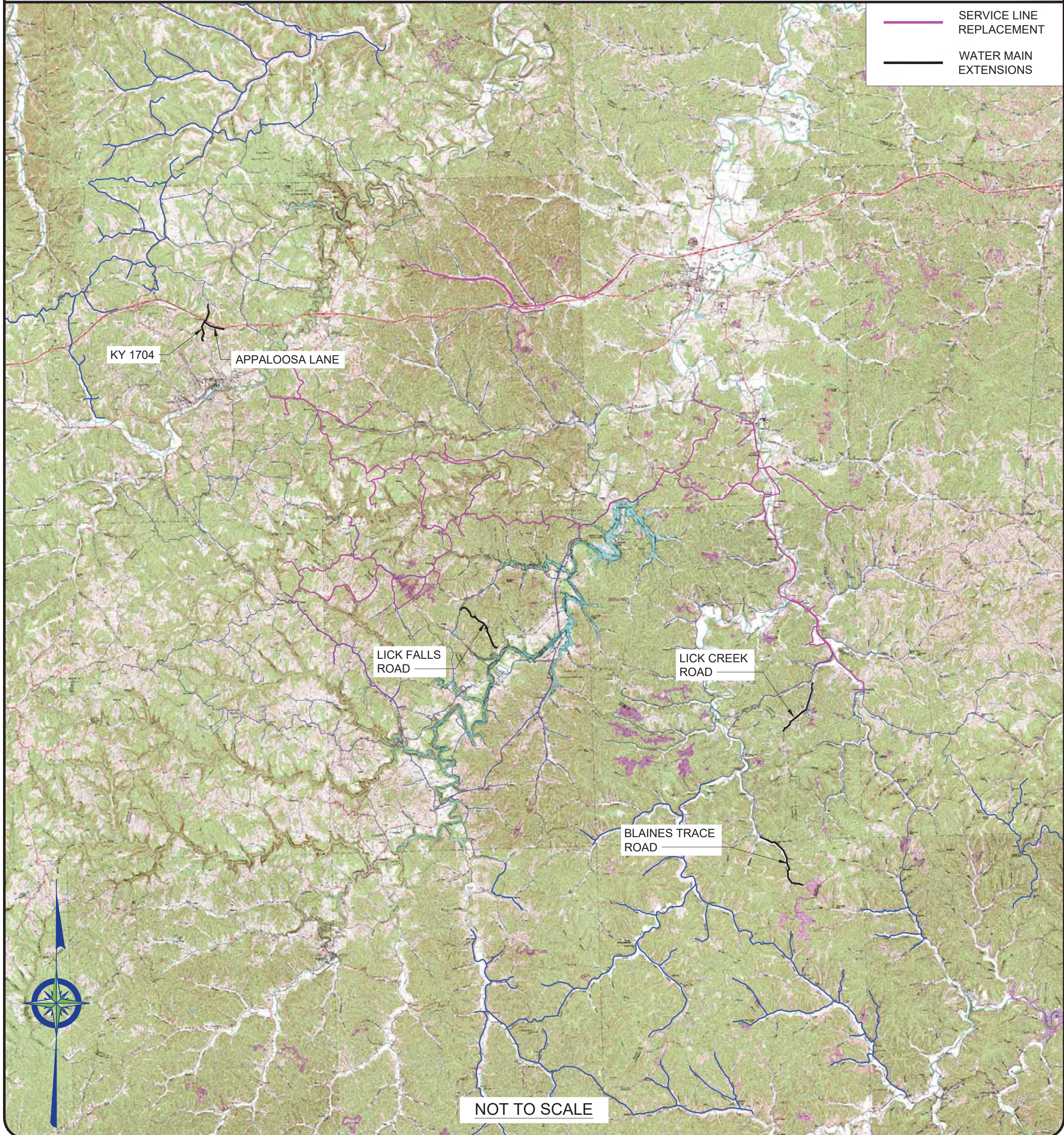
**CONSTRUCTION IN KTC RIGHT-OF-WAY**

- 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.

**INDEX OF DRAWINGS**

SHT NO.	DESCRIPTION:
-	COVER
01	PROJECT MAP, EXISTING UTILITIES, LEGEND, AND DRAWING INDEX
02	AERIAL PLAN - KY 1704
03	AERIAL PLAN - APPALOOSA LANE
04 - 06	AERIAL PLAN - BLAINES TRACE ROAD
07 - 08	AERIAL PLAN - LICK CREEK ROAD
09	AERIAL PLAN - LICK FALLS ROAD
10 - 25	SERVICE LINE REPLACEMENT
26 - 29	STANDARD DETAILS

**SHEET LOCATION MAP**



**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 WATER METER
- EXISTING GATE VALVE & BOX
- NEW GATE VALVE & BOX
- EXISTING MANHOLE
- EXISTING BLOWOFF ASSEMBLY
- NEW BLOWOFF ASSEMBLY

**UTILITIES**

**BUD - Before You Dig**  
1-800-752-6007  
or DIAL 811

**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 DISTRICT**

RATTLESNAKE RIDGE WATER DISTRICT  
PHONE: 606-474-7570

NO.	DATE	REVISIONS	BY

**PHASE 12 WATER SYSTEM IMPROVEMENTS  
CONTRACT 2**  
**PROJECT MAP, EXISTING UTILITIES,  
LEGEND, AND DRAWING INDEX**

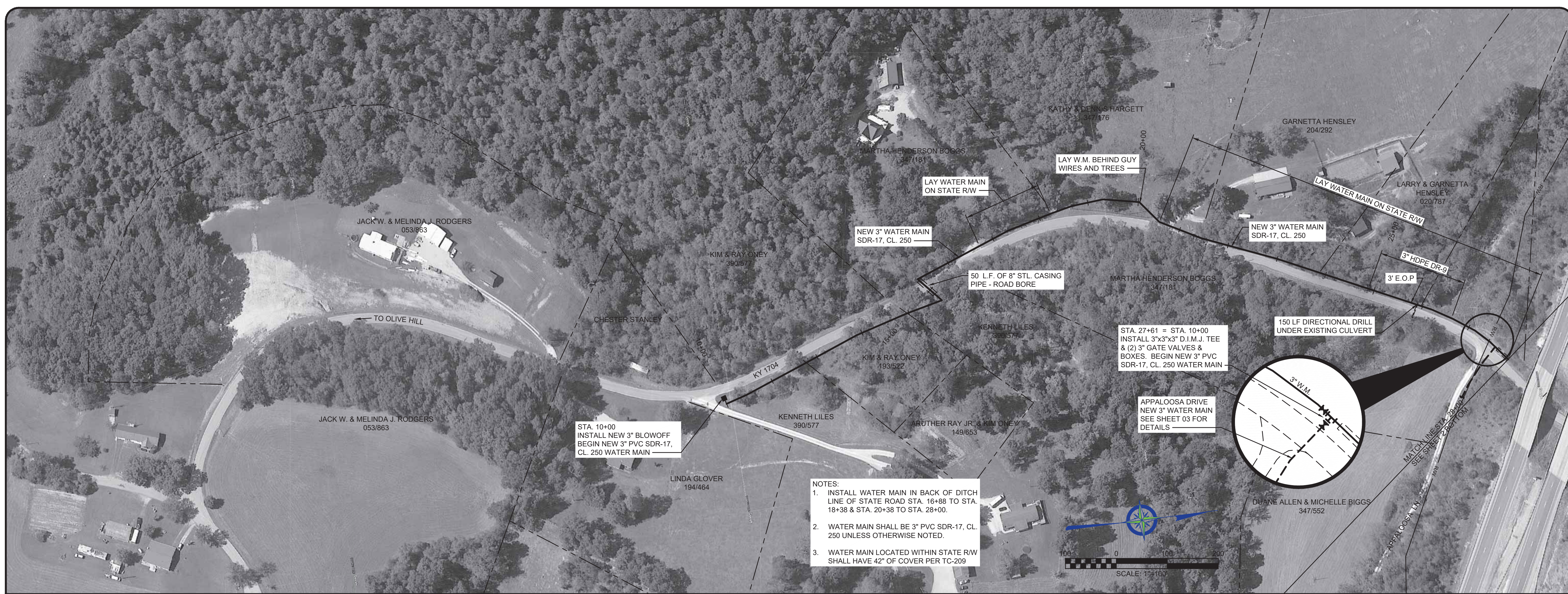


PROJECT #:	20002
DATE:	AUGUST 2022
PROJECT MGR:	LRS
DRAWN BY:	WCM
CHECKED BY:	MRC

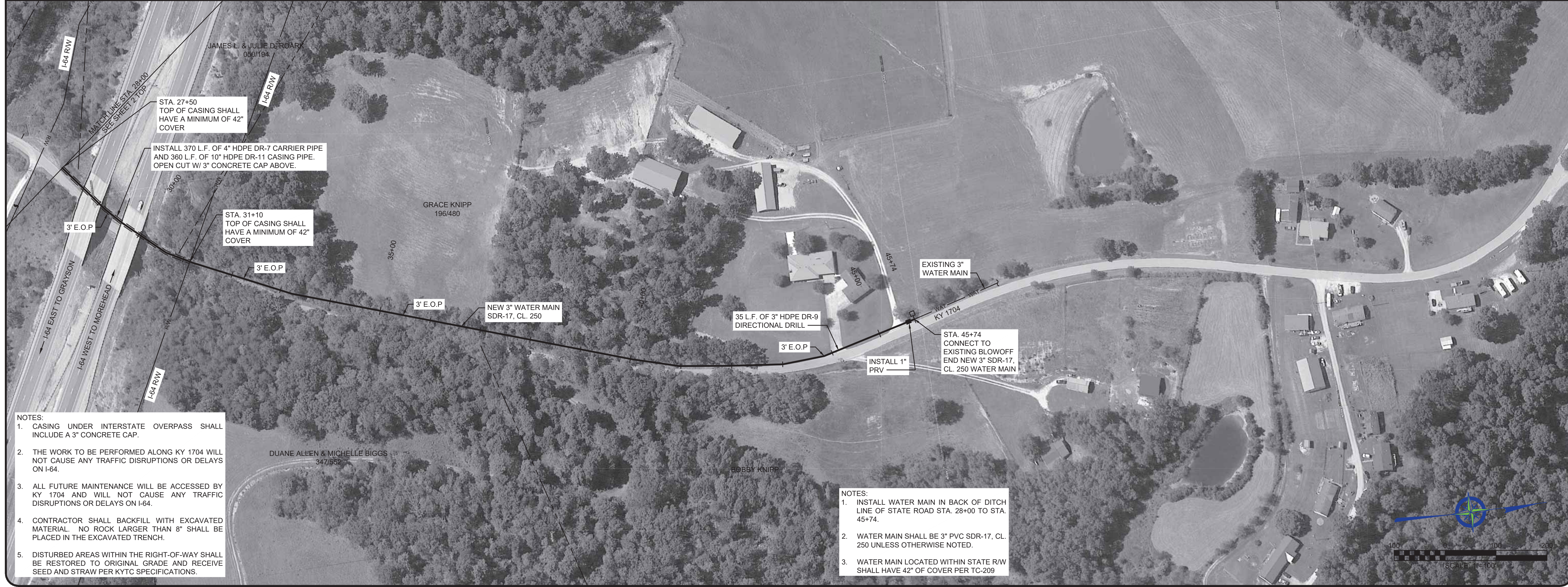
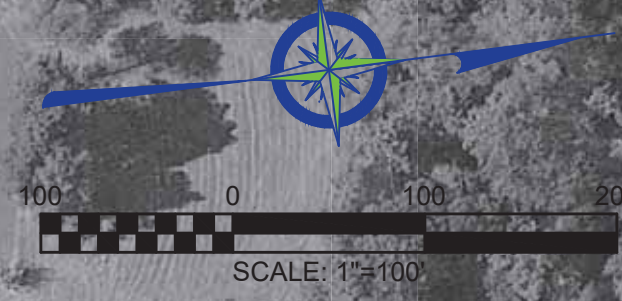




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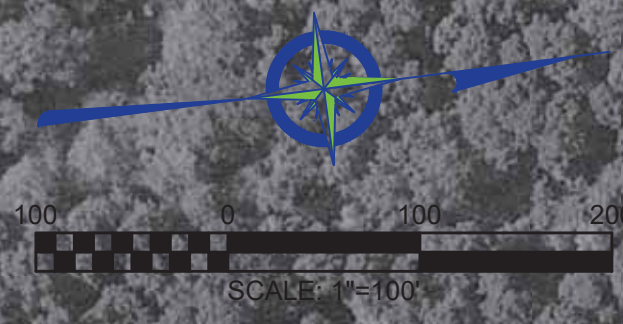


NOTES:  
 1. INSTALL WATER MAIN IN BACK OF DITCH LINE OF STATE ROAD STA. 16+88 TO STA. 18+38 & STA. 20+38 TO STA. 28+00.  
 2. WATER MAIN SHALL BE 3" PVC SDR-17, CL. 250 UNLESS OTHERWISE NOTED.  
 3. WATER MAIN LOCATED WITHIN STATE RW SHALL HAVE 42" OF COVER PER TC-209



NOTES:  
 1. CASING UNDER INTERSTATE OVERPASS SHALL INCLUDE A 3" CONCRETE CAP.  
 2. THE WORK TO BE PERFORMED ALONG KY 1704 WILL NOT CAUSE ANY TRAFFIC DISRUPTIONS OR DELAYS ON I-64.  
 3. ALL FUTURE MAINTENANCE WILL BE ACCESSED BY KY 1704 AND WILL NOT CAUSE ANY TRAFFIC DISRUPTIONS OR DELAYS ON I-64.  
 4. CONTRACTOR SHALL BACKFILL WITH EXCAVATED MATERIAL. NO ROCK LARGER THAN 8" SHALL BE PLACED IN THE EXCAVATED TRENCH.  
 5. DISTURBED AREAS WITHIN THE RIGHT-OF-WAY SHALL BE RESTORED TO ORIGINAL GRADE AND RECEIVE SEED AND STRAW PER KYTC SPECIFICATIONS.

NOTES:  
 1. INSTALL WATER MAIN IN BACK OF DITCH LINE OF STATE ROAD STA. 28+00 TO STA. 45+74.  
 2. WATER MAIN SHALL BE 3" PVC SDR-17, CL. 250 UNLESS OTHERWISE NOTED.  
 3. WATER MAIN LOCATED WITHIN STATE RW SHALL HAVE 42" OF COVER PER TC-209



NO.	DATE	REVISIONS	BY

PHASE 12 WATER SYSTEM IMPROVEMENTS  
 CONTRACT 2  
 KY 1704

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

PROJECT #: 20002  
 DATE: AUGUST 2022  
 PROJECT MGR: LRS  
 DRAWN BY: WCM  
 CHECKED BY: MRC

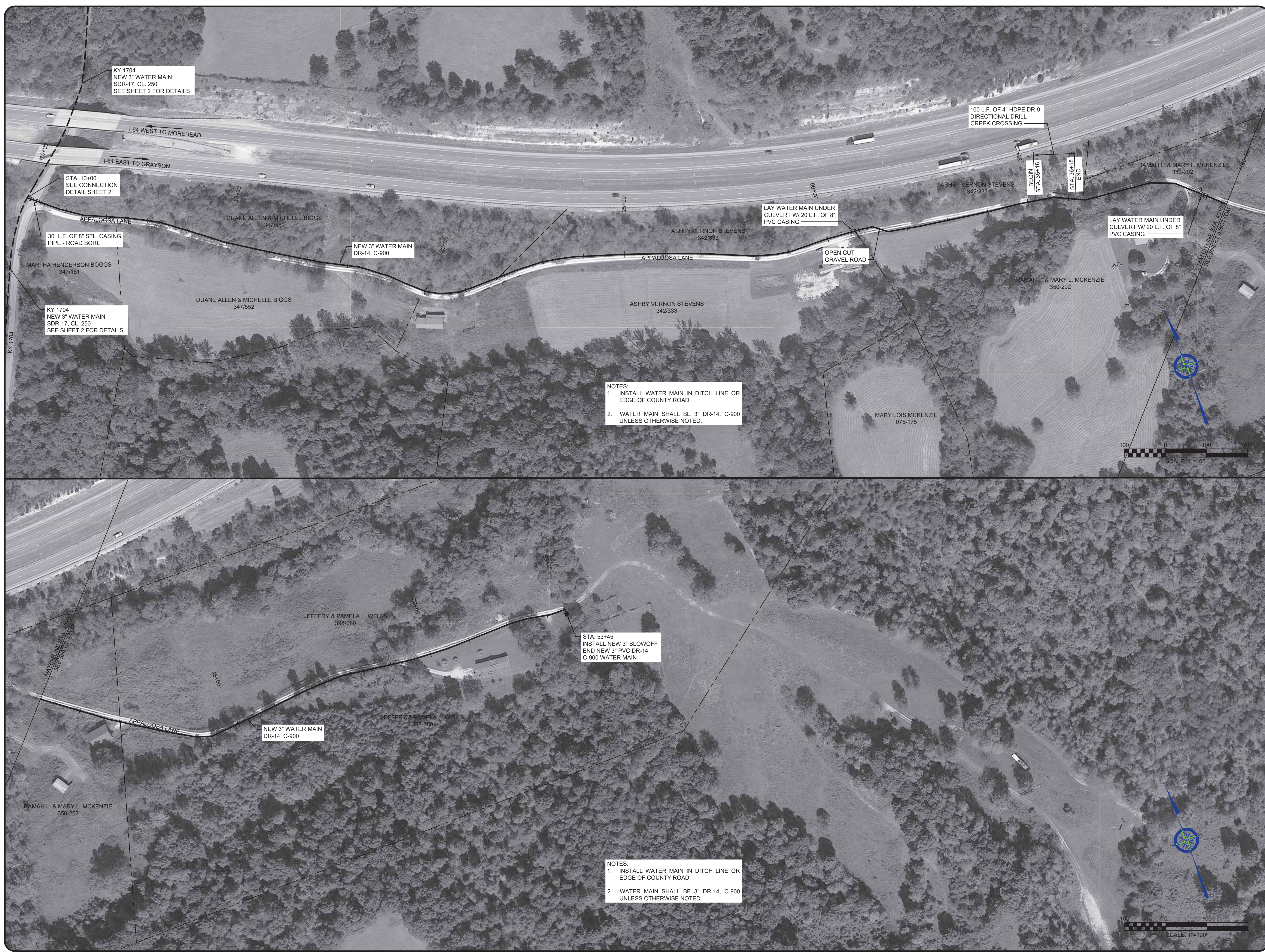


02

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NOTES:  
 1. INSTALL WATER MAIN IN DITCH LINE OR EDGE OF COUNTY ROAD.  
 2. WATER MAIN SHALL BE 3" DR-14, C-900 UNLESS OTHERWISE NOTED.

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PHASE 12 WATER SYSTEM IMPROVEMENTS  
 CONTRACT 2  
 APPALOOSA LANE



PROJECT #: 20002  
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EXISTING BLOWOFF

STA. 10+00  
CONNECT TO EX. 3" W.M.  
BEGIN NEW 3" PVC SDR-21,  
CL. 200 WATER MAIN

EXISTING 3" WATER MAIN

50 L.F. OF 3" HDPE DR-9  
DIRECTIONAL DRILL  
CREEK CROSSING

BEGIN  
STA. 17+00  
STA. 17+58  
END

NEW 3" WATER MAIN  
SDR-21, CL. 200

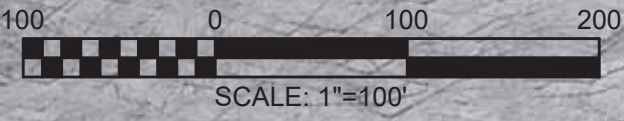
BLAINES TRACE RD

BEGIN  
STA. 25+00  
STA. 28+40  
END

50 L.F. OF 3" HDPE DR-9  
DIRECTIONAL DRILL  
CREEK CROSSING

NOTES:  
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EDGE OF COUNTY ROAD.  
2. WATER MAIN SHALL BE 3" SDR-21, CL. 200  
UNLESS OTHERWISE NOTED.

MATCH LINE STA. 32+00  
SEE SHEET 105



NO.	DATE	REVISIONS	BY

PHASE 12 WATER SYSTEM IMPROVEMENTS  
CONTRACT 2  
  
BLAINES TRACE ROAD

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

PROJECT #: 20002  
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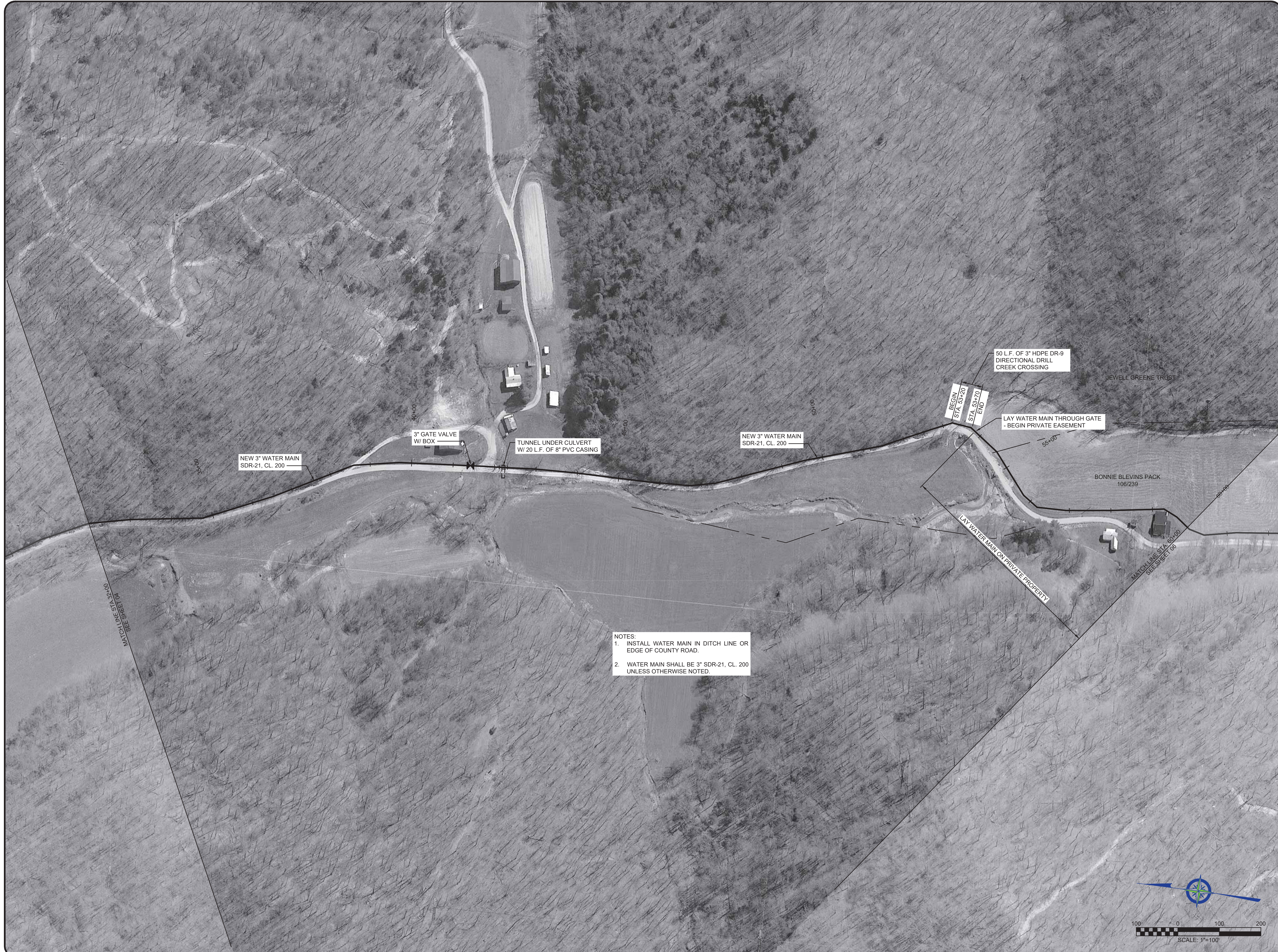
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BID SET

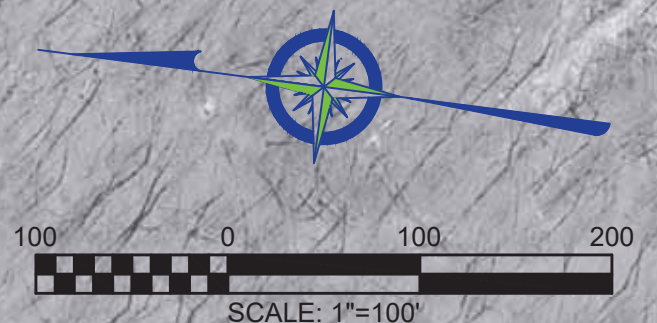


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- NOTES:
1. INSTALL WATER MAIN IN DITCH LINE OR EDGE OF COUNTY ROAD.
  2. WATER MAIN SHALL BE 3" SDR-21, CL. 200 UNLESS OTHERWISE NOTED.



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PHASE 12 WATER SYSTEM IMPROVEMENTS  
 CONTRACT 2  
 BLAINES TRACE ROAD

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

PROJECT #: 20002  
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05

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NO.	DATE	REVISIONS	BY

PHASE 12 WATER SYSTEM IMPROVEMENTS  
 CONTRACT 2  
 BLAINES TRACE ROAD

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

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06

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STA. 10+00  
CONNECT TO EX. 3" W.M. INSTALL  
3"x3" S.S. TAPPING SLEEVE & 3"  
GATE VALVE W/BOX BEGIN NEW  
3" WATER MAIN SDR-21, CL. 200

35 L.F. OF 8" PVC  
CASING - OPEN CUT

TUNNEL UNDER CULVERT  
W/ 30 L.F. OF 8" PVC CASING

NEW 3" WATER MAIN  
SDR-21, CL. 200

3" GATE VALVE  
W/ BOX

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PHASE 12 WATER SYSTEM IMPROVEMENTS  
CONTRACT 2  
LICK CREEK ROAD

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

PROJECT #: 20002  
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PROJECT MGR: LRS  
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07

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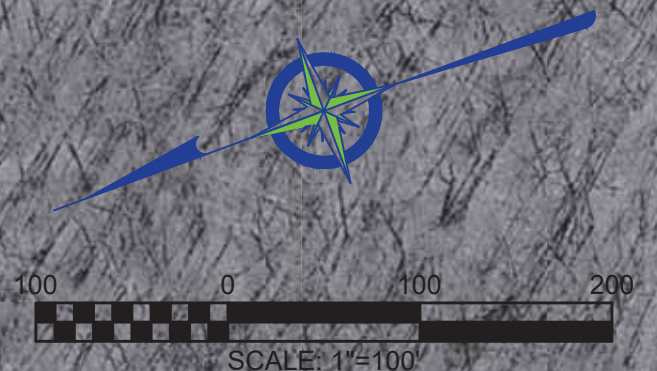
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NOTES:  
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STA. 68+31  
 INSTALL NEW 3"  
 BLOWOFF END NEW  
 3" WATER MAIN  
 SDR-21, CL. 200



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PHASE 12 WATER SYSTEM IMPROVEMENTS  
 CONTRACT 2  
 LICK CREEK ROAD

PROJECT #: 20002  
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08

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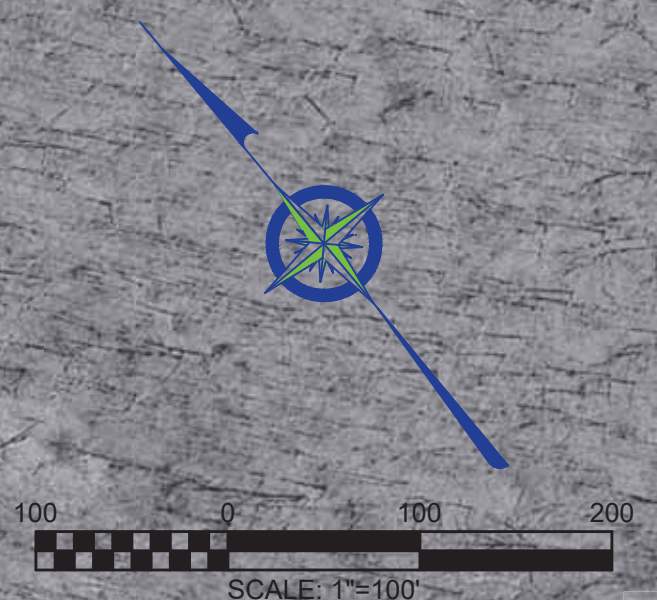


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BE 8/23/22



NOTES:  
1. INSTALL WATER MAIN IN DITCH LINE OR EDGE OF COUNTY ROAD.  
2. WATER MAIN SHALL BE 2\"/>



NO.	DATE	REVISIONS	BY

PHASE 12 WATER SYSTEM IMPROVEMENTS  
CONTRACT 2  
LICK FALLS ROAD

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

PROJECT #: 20002  
DATE: AUGUST 2022  
PROJECT MGR: LRS  
DRAWN BY: WCM  
CHECKED BY: MRC



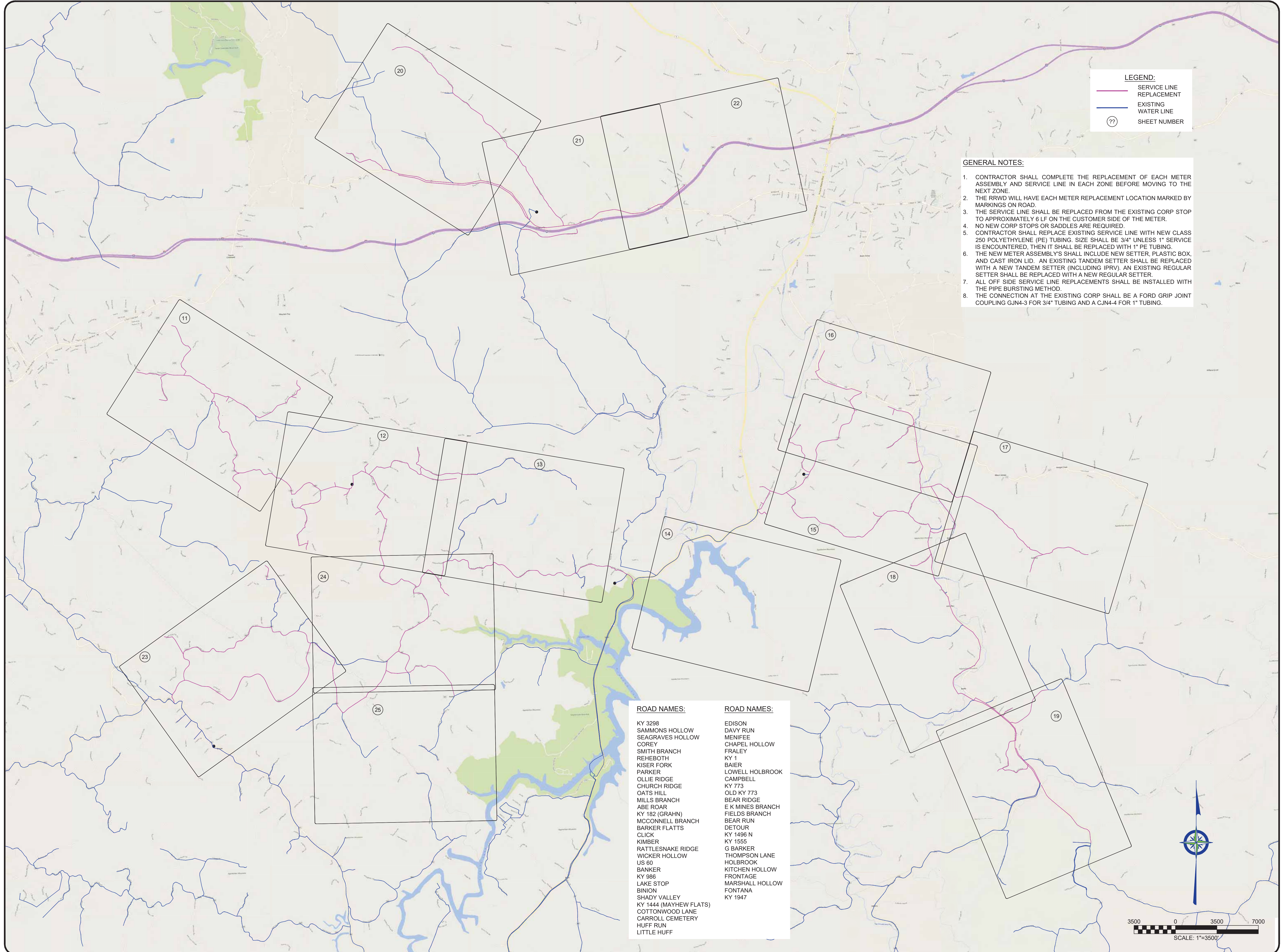
09

BID SET



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**LEGEND:**

- SERVICE LINE REPLACEMENT
- EXISTING WATER LINE
- ?? SHEET NUMBER

- GENERAL NOTES:**
1. CONTRACTOR SHALL COMPLETE THE REPLACEMENT OF EACH METER ASSEMBLY AND SERVICE LINE IN EACH ZONE BEFORE MOVING TO THE NEXT ZONE.
  2. THE RRWD WILL HAVE EACH METER REPLACEMENT LOCATION MARKED BY MARKINGS ON ROAD.
  3. THE SERVICE LINE SHALL BE REPLACED FROM THE EXISTING CORP STOP TO APPROXIMATELY 6 LF ON THE CUSTOMER SIDE OF THE METER.
  4. NO NEW CORP STOPS OR SADDLES ARE REQUIRED.
  5. CONTRACTOR SHALL REPLACE EXISTING SERVICE LINE WITH NEW CLASS 250 POLYETHYLENE (PE) TUBING. SIZE SHALL BE 3/4" UNLESS 1" SERVICE IS ENCOUNTERED, THEN IT SHALL BE REPLACED WITH 1" PE TUBING.
  6. THE NEW METER ASSEMBLY'S SHALL INCLUDE NEW SETTER, PLASTIC BOX, AND CAST IRON LID. AN EXISTING TANDEM SETTER SHALL BE REPLACED WITH A NEW TANDEM SETTER (INCLUDING IPRV), AN EXISTING REGULAR SETTER SHALL BE REPLACED WITH A NEW REGULAR SETTER.
  7. ALL OFF SIDE SERVICE LINE REPLACEMENTS SHALL BE INSTALLED WITH THE PIPE BURSTING METHOD.
  8. THE CONNECTION AT THE EXISTING CORP SHALL BE A FORD GRIP JOINT COUPLING GJN4-3 FOR 3/4" TUBING AND A CJN4-4 FOR 1" TUBING.

- ROAD NAMES:**
- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>KY 3298</li> <li>SAMMONS HOLLOW</li> <li>SEAGRAVES HOLLOW</li> <li>COREY</li> <li>SMITH BRANCH</li> <li>REHEBOTH</li> <li>KISER FORK</li> <li>PARKER</li> <li>OLLIE RIDGE</li> <li>CHURCH RIDGE</li> <li>OATS HILL</li> <li>MILLS BRANCH</li> <li>ABE ROAD</li> <li>KY 182 (GRAHN)</li> <li>MCCONNELL BRANCH</li> <li>BARKER FLATTS</li> <li>CLICK</li> <li>KIMBER</li> <li>RATTLESNAKE RIDGE</li> <li>WICKER HOLLOW</li> <li>US 60</li> <li>BANKER</li> <li>KY 986</li> <li>LAKE STOP</li> <li>BINION</li> <li>SHADY VALLEY</li> <li>KY 1444 (MAYHEW FLATS)</li> <li>COTTONWOOD LANE</li> <li>CARROLL CEMETERY</li> <li>HUFF RUN</li> <li>LITTLE HUFF</li> </ul> | <ul style="list-style-type: none"> <li>EDISON</li> <li>DAVY RUN</li> <li>MENIFEE</li> <li>CHAPEL HOLLOW</li> <li>FRALEY</li> <li>KY 1</li> <li>BAIER</li> <li>LOWELL HOLBROOK</li> <li>CAMPBELL</li> <li>KY 773</li> <li>OLD KY 773</li> <li>BEAR RIDGE</li> <li>E K MINES BRANCH</li> <li>FIELDS BRANCH</li> <li>BEAR RUN</li> <li>DETOUR</li> <li>KY 1496 N</li> <li>KY 1555</li> <li>G BARKER</li> <li>THOMPSON LANE</li> <li>HOLBROOK</li> <li>KITCHEN HOLLOW</li> <li>FRONTAGE</li> <li>MARSHALL HOLLOW</li> <li>FONTANA</li> <li>KY 1947</li> </ul> |
|--|---|

NO.	DATE	REVISIONS	BY

**PHASE 12 WATER SYSTEM IMPROVEMENTS  
CONTRACT 2  
SERVICE LINE REPLACEMENT**

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

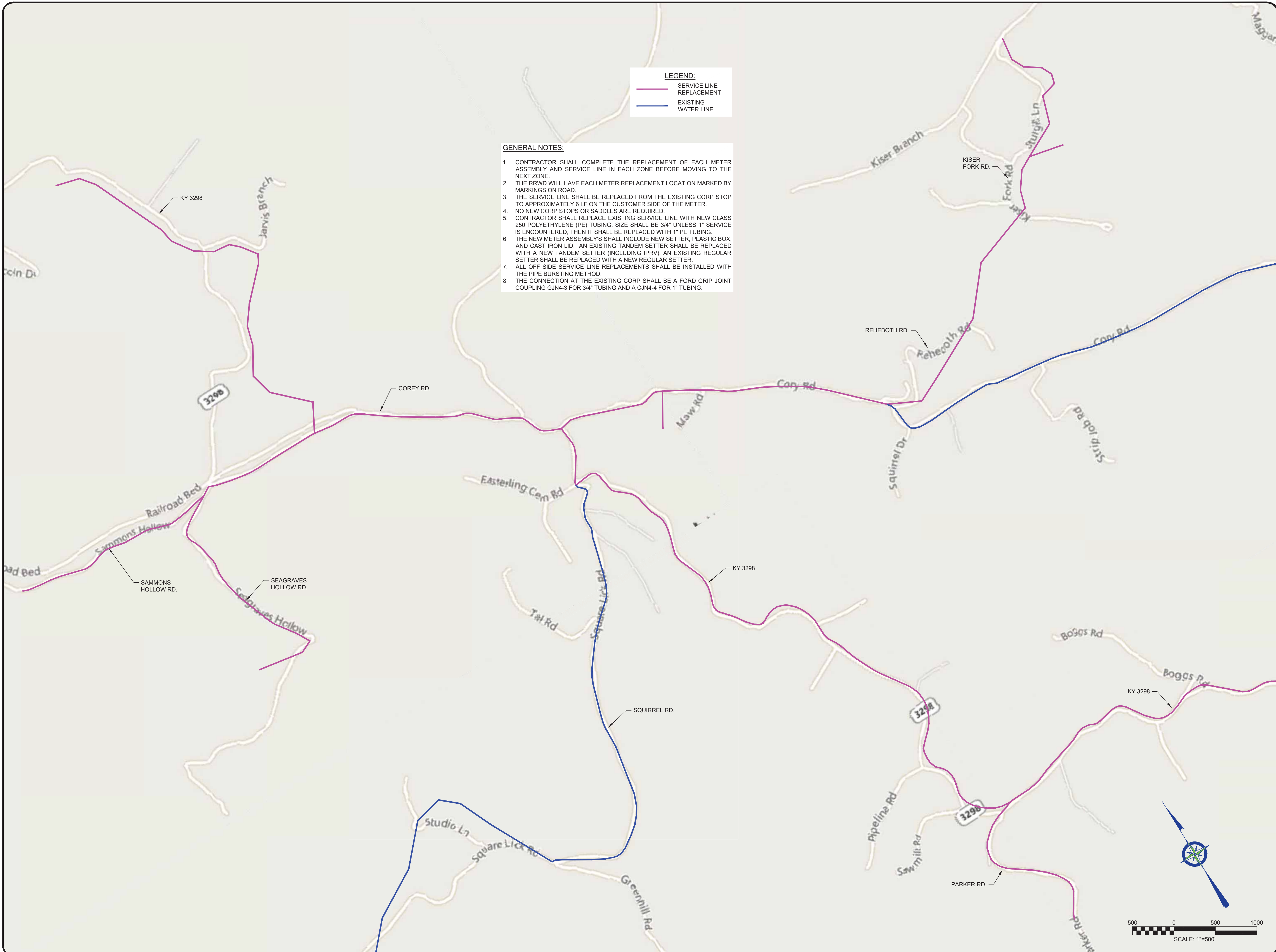
PROJECT #:	20002
DATE:	AUGUST 2022
PROJECT MGR:	LRS
DRAWN BY:	WCM
CHECKED BY:	MRC





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NO.	DATE	REVISIONS	BY

**PHASE 12 WATER SYSTEM IMPROVEMENTS  
 CONTRACT 2**

SERVICE LINE REPLACEMENT



PROJECT #: 20002  
 DATE: AUGUST 2022  
 PROJECT MGR: LRS  
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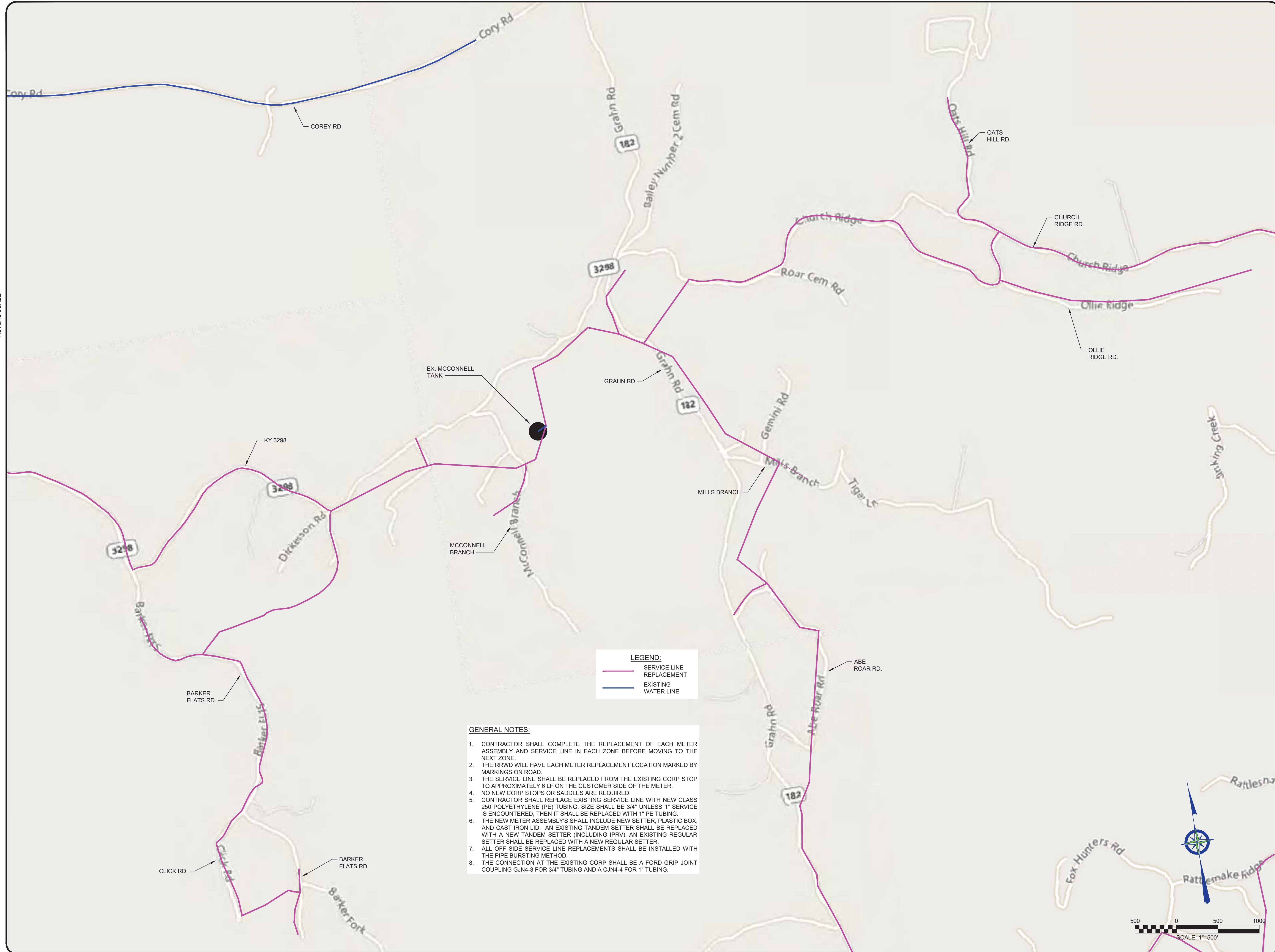


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BE 8/29/22

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- GENERAL NOTES:**
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NO.	DATE	REVISIONS	BY

**PHASE 12 WATER SYSTEM IMPROVEMENTS  
CONTRACT 2**

**SERVICE LINE REPLACEMENT**



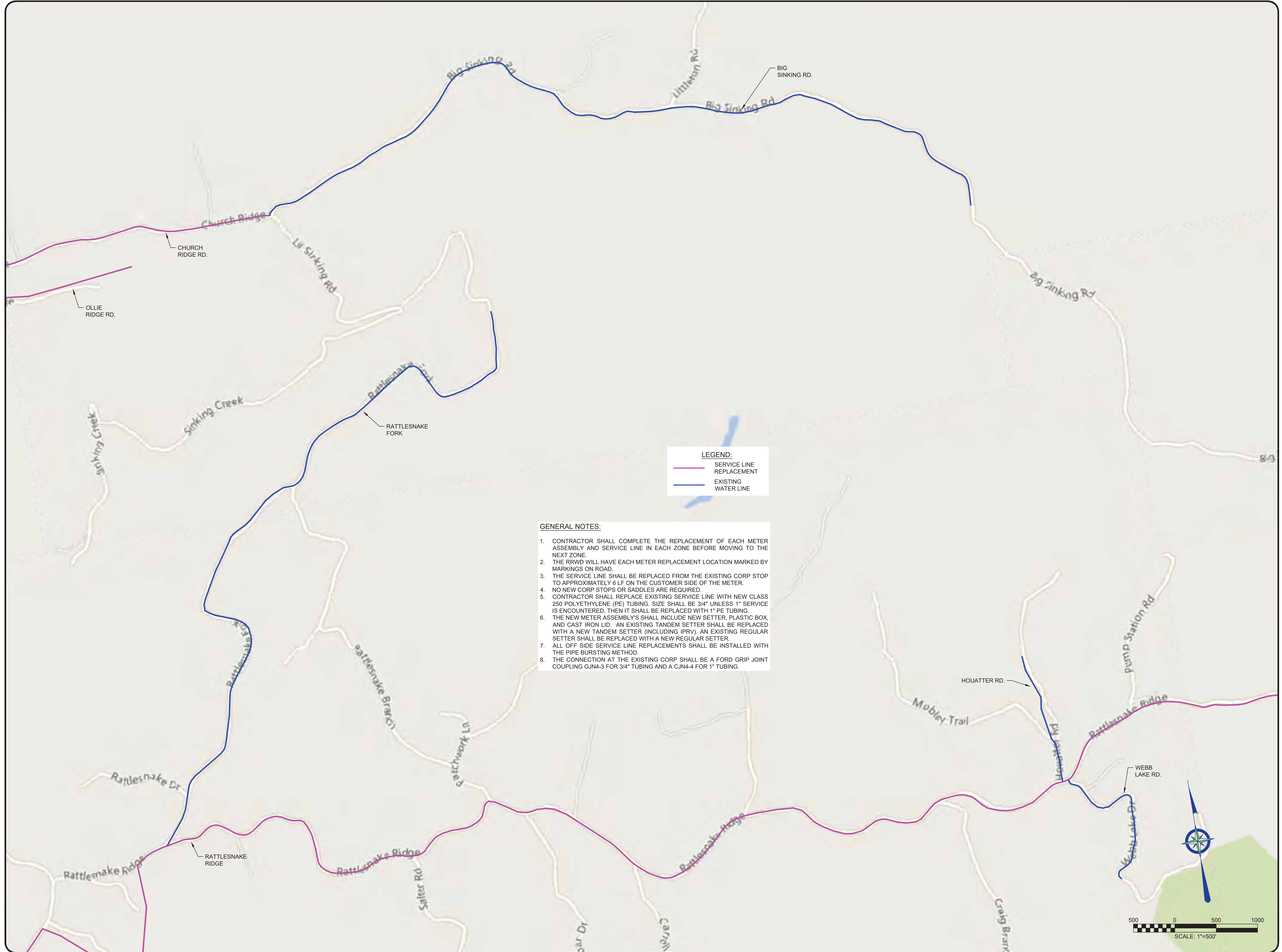
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NO.	DATE	REVISIONS	BY

**PHASE 12 WATER SYSTEM IMPROVEMENTS  
CONTRACT 2**

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**SERVICE LINE REPLACEMENT**

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

PROJECT #:	2002
DATE:	AUGUST 2022
PROJECT MGR:	LRS
DRAWN BY:	WCM
CHECKED BY:	MRC

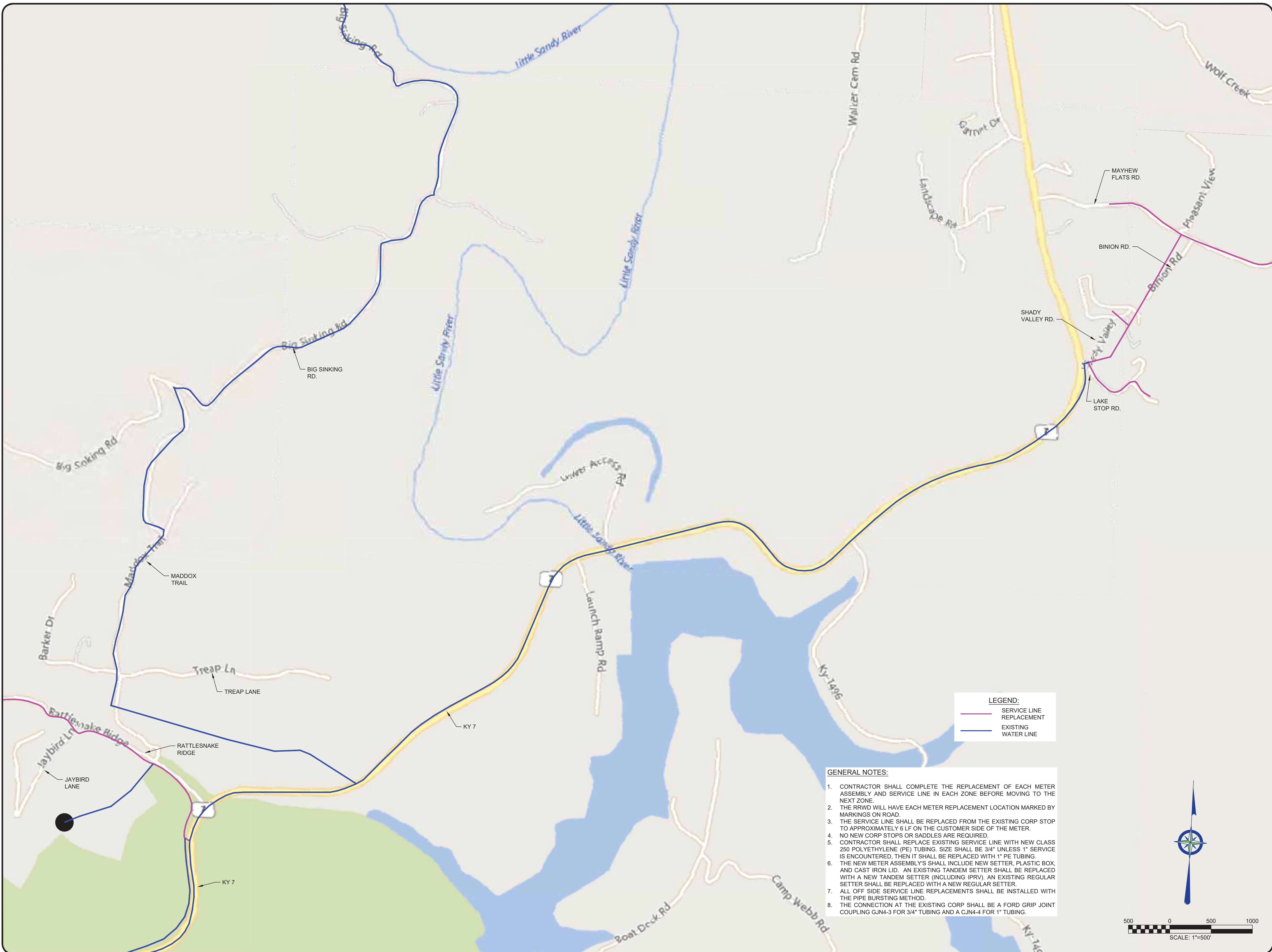


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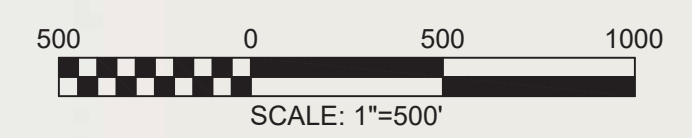
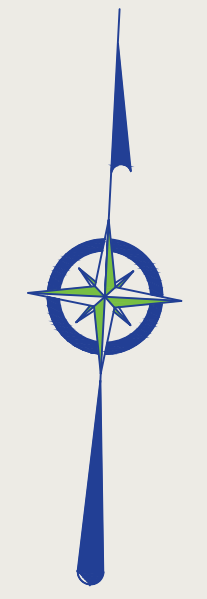
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**LEGEND:**

	SERVICE LINE REPLACEMENT
	EXISTING WATER LINE
	EXISTING SERVICE LINE

- GENERAL NOTES:**
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NO.	DATE	REVISIONS	BY

PHASE 12 WATER SYSTEM IMPROVEMENTS  
CONTRACT 2

SERVICE LINE REPLACEMENT



PROJECT #:	20002
DATE:	AUGUST 2022
PROJECT MGR:	LRS
DRAWN BY:	WCM
CHECKED BY:	MRC

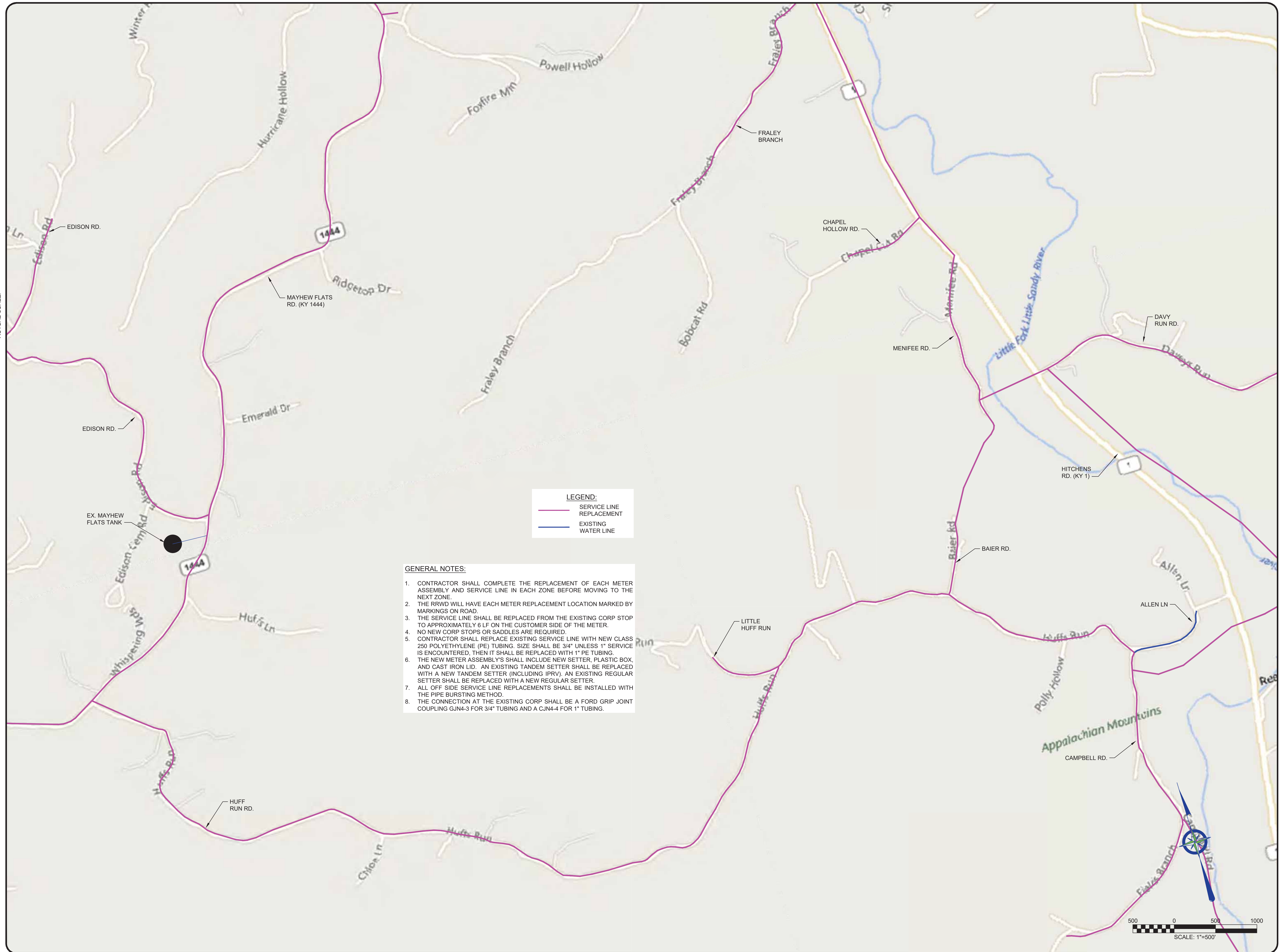




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**LEGEND:**

- SERVICE LINE REPLACEMENT
- EXISTING WATER LINE

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NO.	DATE	REVISIONS	BY

**PHASE 12 WATER SYSTEM IMPROVEMENTS  
CONTRACT 2**

**SERVICE LINE REPLACEMENT**

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

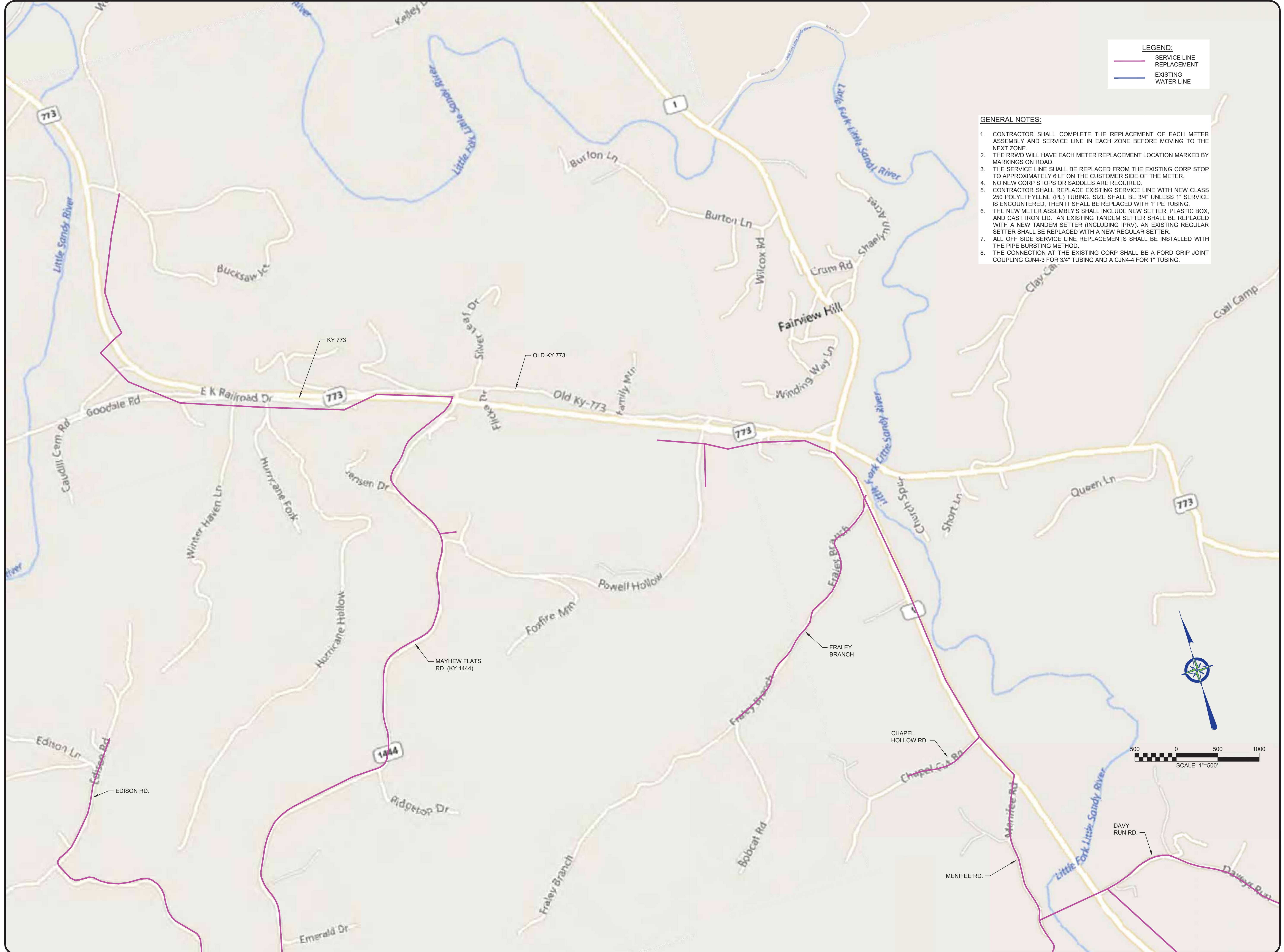
PROJECT #:	20002
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B:\PROJECTS\Battersake Ridge WDI\GeneralSystem Map\RRWD\RRWD System Map.dwg BE 8/29/22



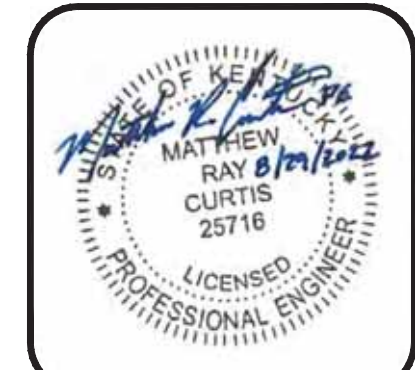
- LEGEND:**  
 — SERVICE LINE REPLACEMENT  
 — EXISTING WATER LINE
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NO.	DATE	REVISIONS	BY

**PHASE 12 WATER SYSTEM IMPROVEMENTS  
 CONTRACT 2  
 SERVICE LINE REPLACEMENT**



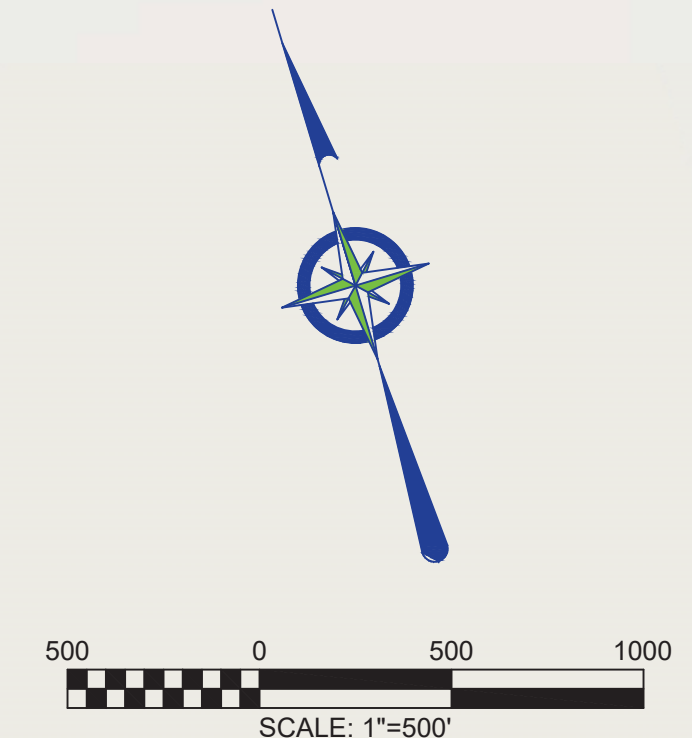
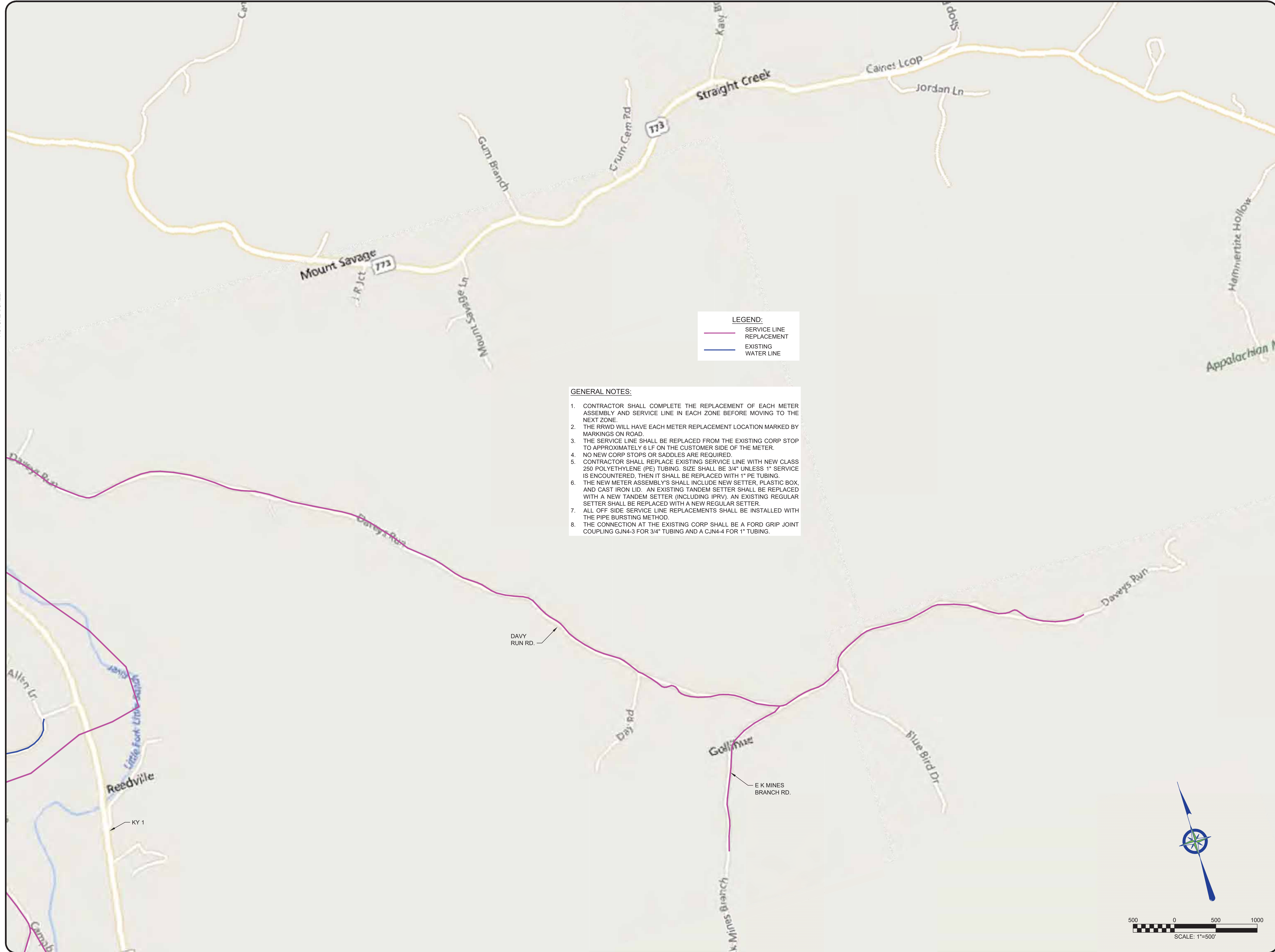
PROJECT #:	20002
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NO.	DATE	REVISIONS	BY

PHASE 12 WATER SYSTEM IMPROVEMENTS  
CONTRACT 2  
SERVICE LINE REPLACEMENT



PROJECT #: 20002  
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PROJECT MGR: LRS  
DRAWN BY: WCM  
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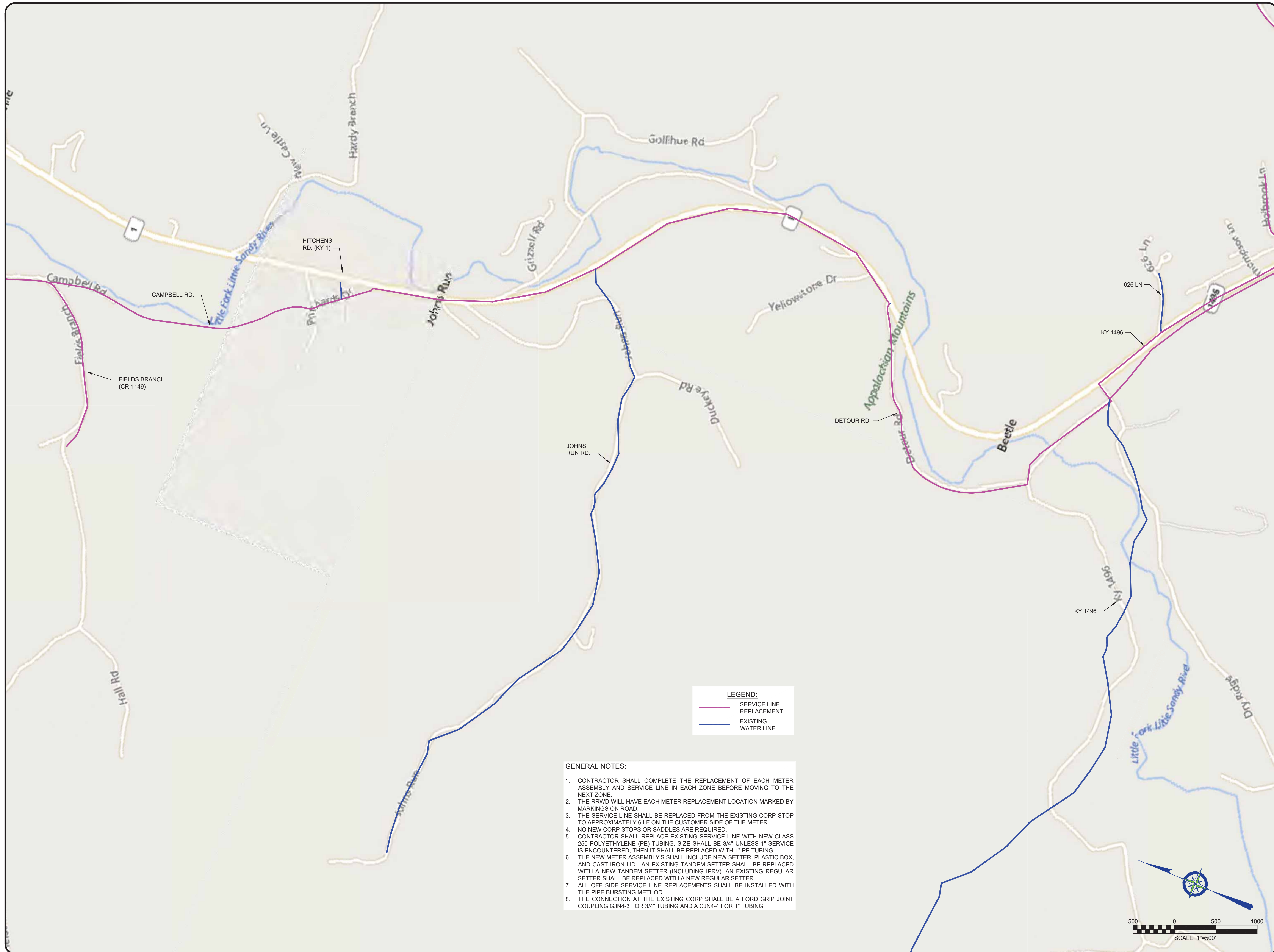




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BE 02/2022

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**PHASE 12 WATER SYSTEM IMPROVEMENTS  
CONTRACT 2  
SERVICE LINE REPLACEMENT**

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

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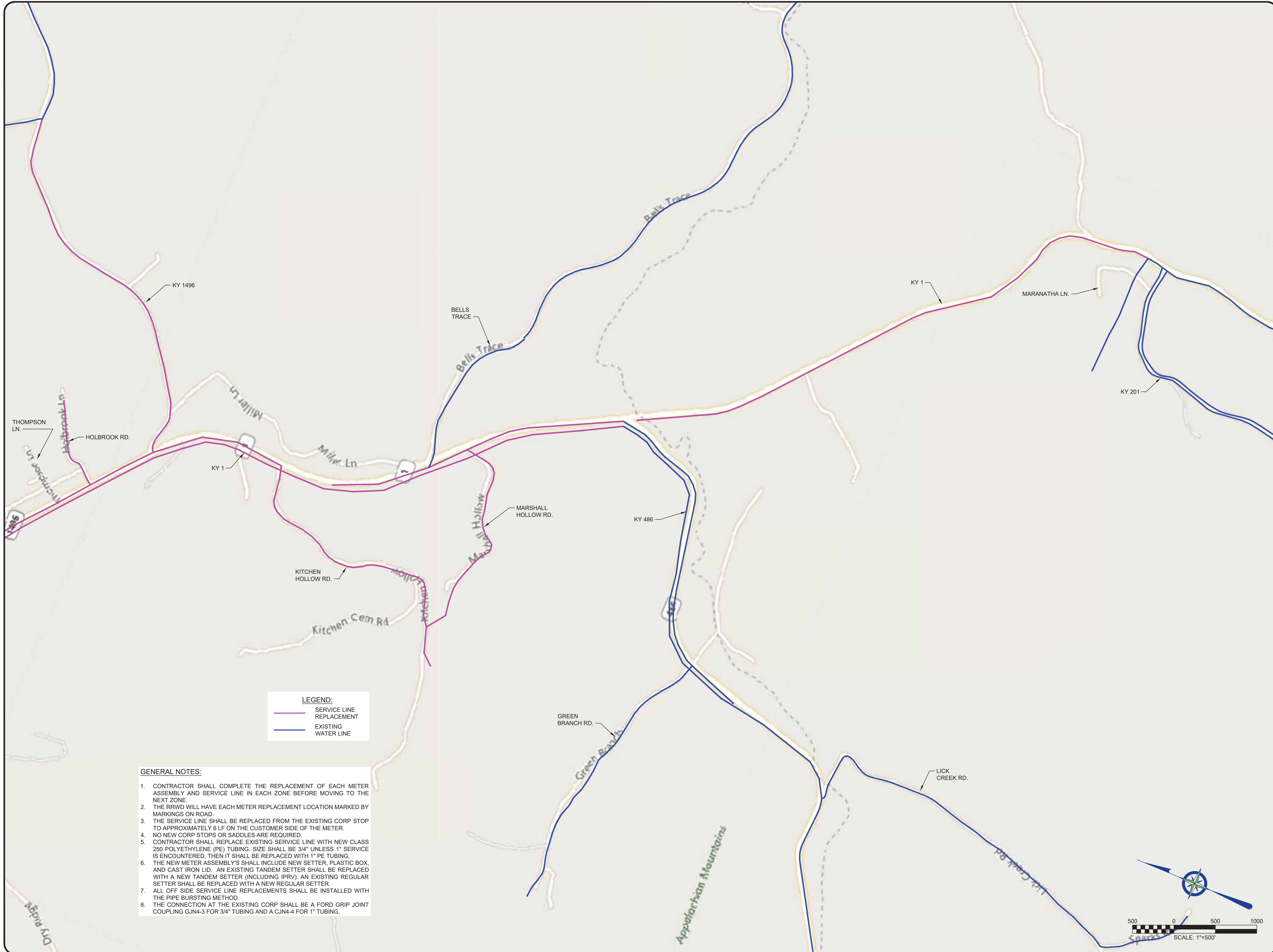




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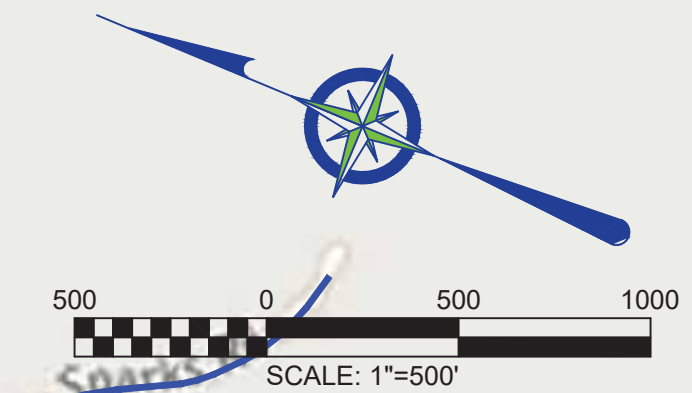
B:\PROJECTS\Batesville Ridge WDI\General\System Maps\RRWD\RRWD System Map.dwg



**LEGEND:**

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- EXISTING WATER LINE

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**SERVICE LINE REPLACEMENT**

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

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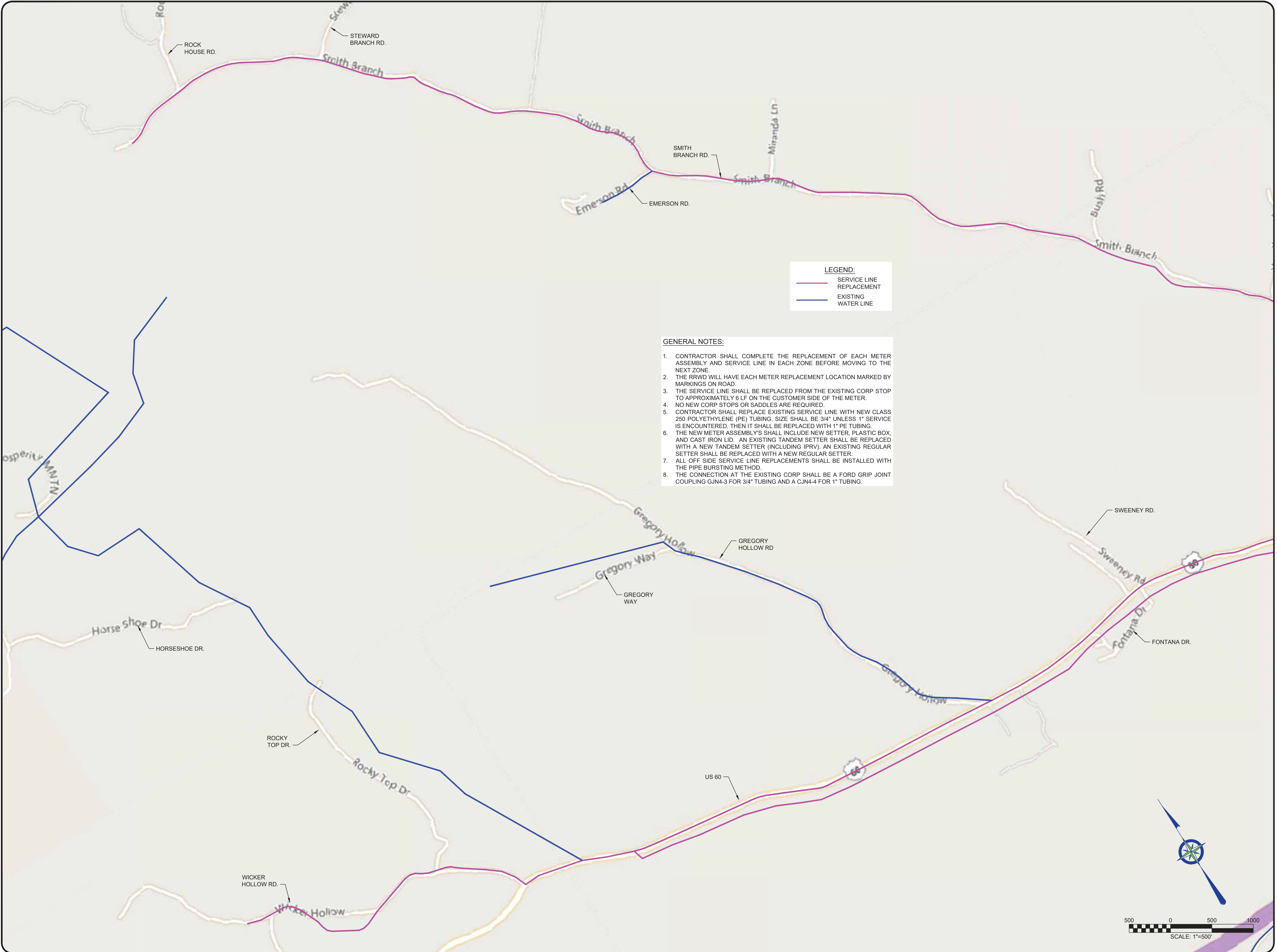




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B:\PROJECTS\Battleground Ridge WDI\General\System Map\RRWD\RRWD System Map.dwg BE 8/29/22



**LEGEND:**

- SERVICE LINE REPLACEMENT
- EXISTING WATER LINE

- GENERAL NOTES:**
1. CONTRACTOR SHALL COMPLETE THE REPLACEMENT OF EACH METER ASSEMBLY AND SERVICE LINE IN EACH ZONE BEFORE MOVING TO THE NEXT ZONE.
  2. THE RRWD WILL HAVE EACH METER REPLACEMENT LOCATION MARKED BY MARKINGS ON ROAD.
  3. THE SERVICE LINE SHALL BE REPLACED FROM THE EXISTING CORP STOP TO APPROXIMATELY 6 LF ON THE CUSTOMER SIDE OF THE METER.
  4. NO NEW CORP STOPS OR SADDLES ARE REQUIRED.
  5. CONTRACTOR SHALL REPLACE EXISTING SERVICE LINE WITH NEW CLASS 250 POLYETHYLENE (PE) TUBING. SIZE SHALL BE 3/4" UNLESS 1" SERVICE IS ENCOUNTERED, THEN IT SHALL BE REPLACED WITH 1" PE TUBING.
  6. THE NEW METER ASSEMBLY'S SHALL INCLUDE NEW SETTER, PLASTIC BOX, AND CAST IRON LID. AN EXISTING TANDEM SETTER SHALL BE REPLACED WITH A NEW TANDEM SETTER (INCLUDING IPRV). AN EXISTING REGULAR SETTER SHALL BE REPLACED WITH A NEW REGULAR SETTER.
  7. ALL OFF SIDE SERVICE LINE REPLACEMENTS SHALL BE INSTALLED WITH THE PIPE BURSTING METHOD.
  8. THE CONNECTION AT THE EXISTING CORP SHALL BE A FORD GRIP JOINT COUPLING GJN4-3 FOR 3/4" TUBING AND A CJN4-4 FOR 1" TUBING.

NO.	DATE	REVISIONS	BY

**PHASE 12 WATER SYSTEM IMPROVEMENTS  
CONTRACT 2  
SERVICE LINE REPLACEMENT**

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

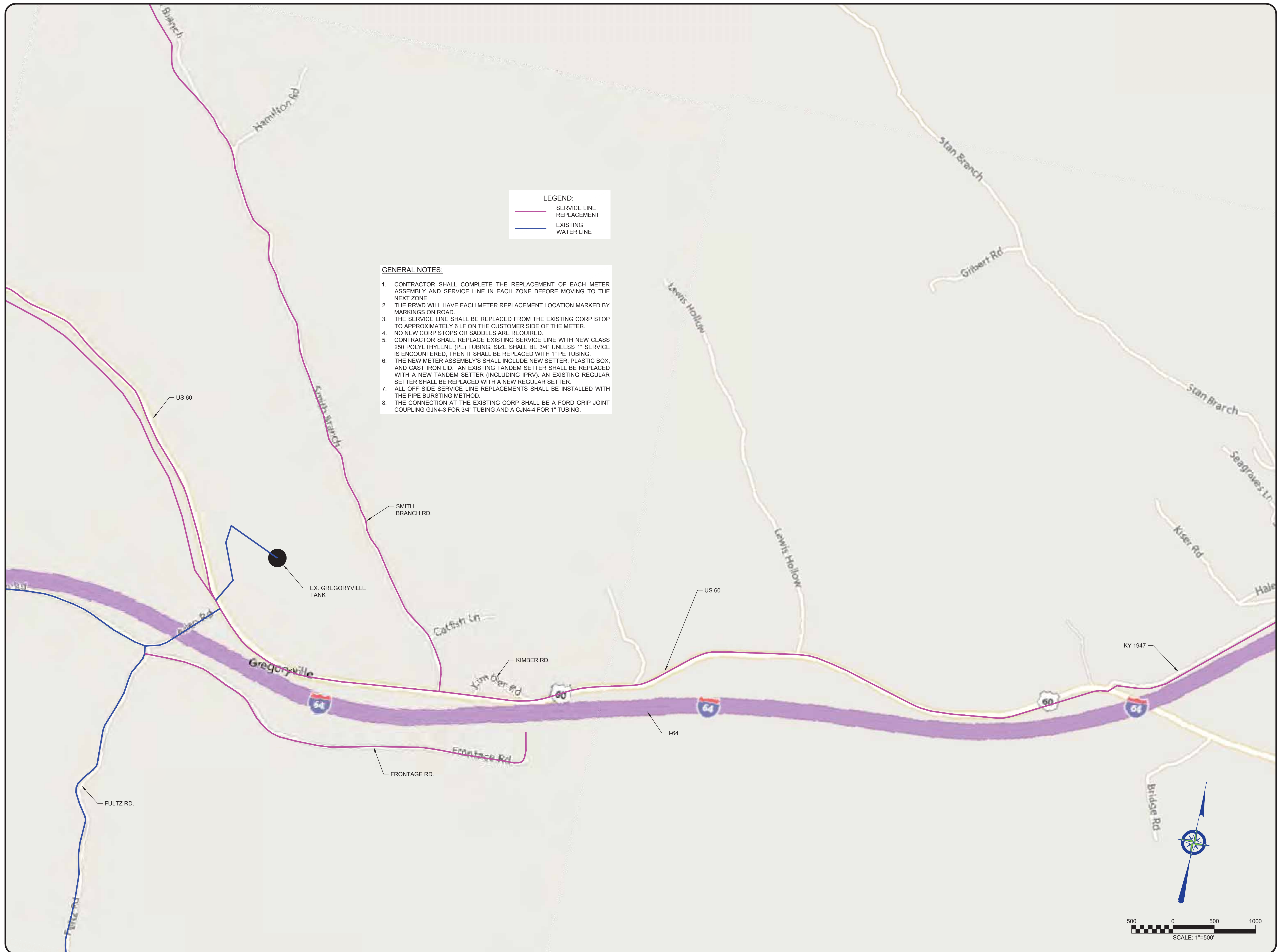
PROJECT #: 20002  
 DATE: AUGUST 2022  
 PROJECT MGR: LRS  
 DRAWN BY: WCM  
 CHECKED BY: MRC





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**PHASE 12 WATER SYSTEM IMPROVEMENTS  
 CONTRACT 2**

**SERVICE LINE REPLACEMENT**

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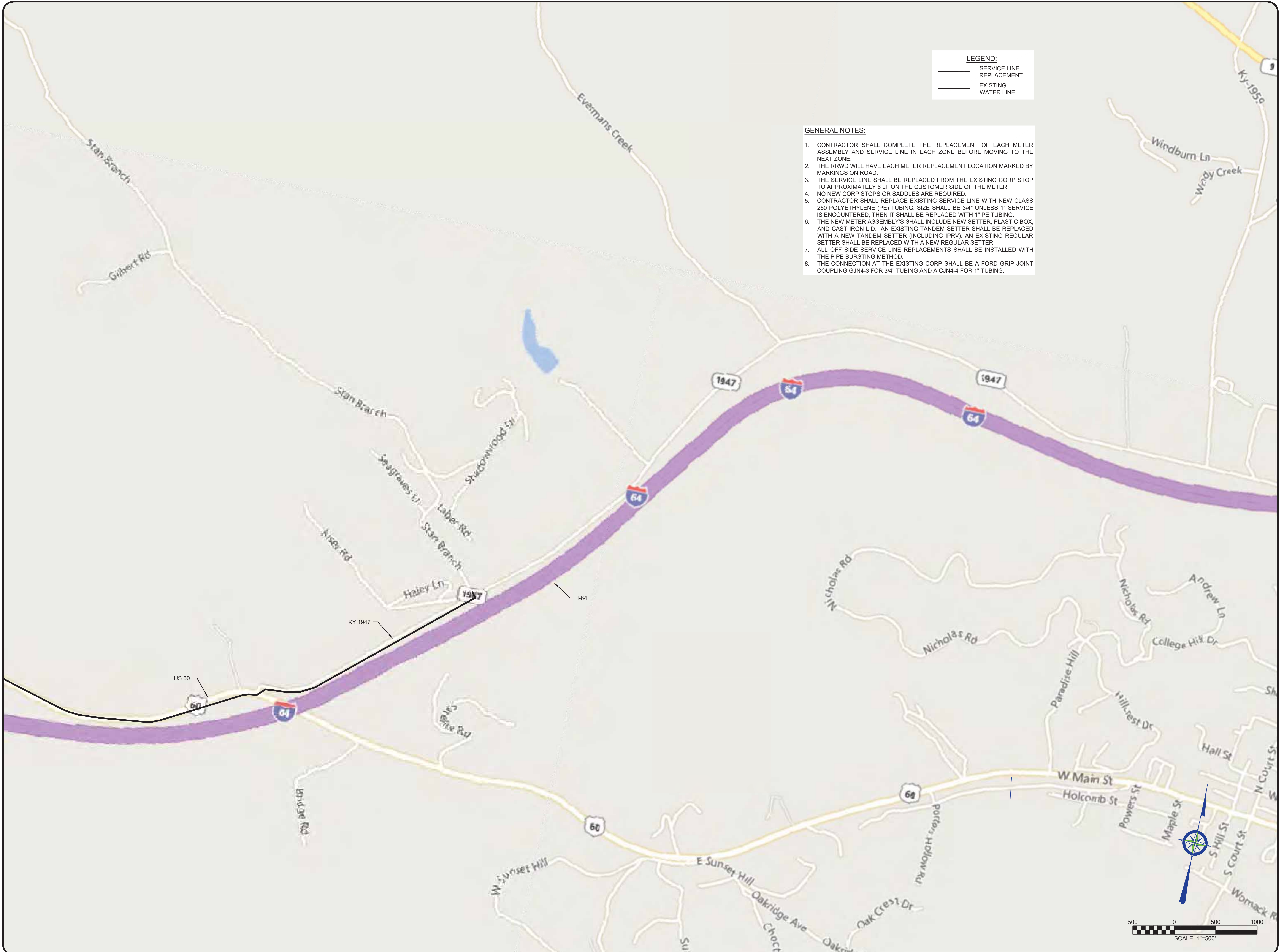
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PHASE 12 WATER SYSTEM IMPROVEMENTS  
 CONTRACT 2  
 SERVICE LINE REPLACEMENT



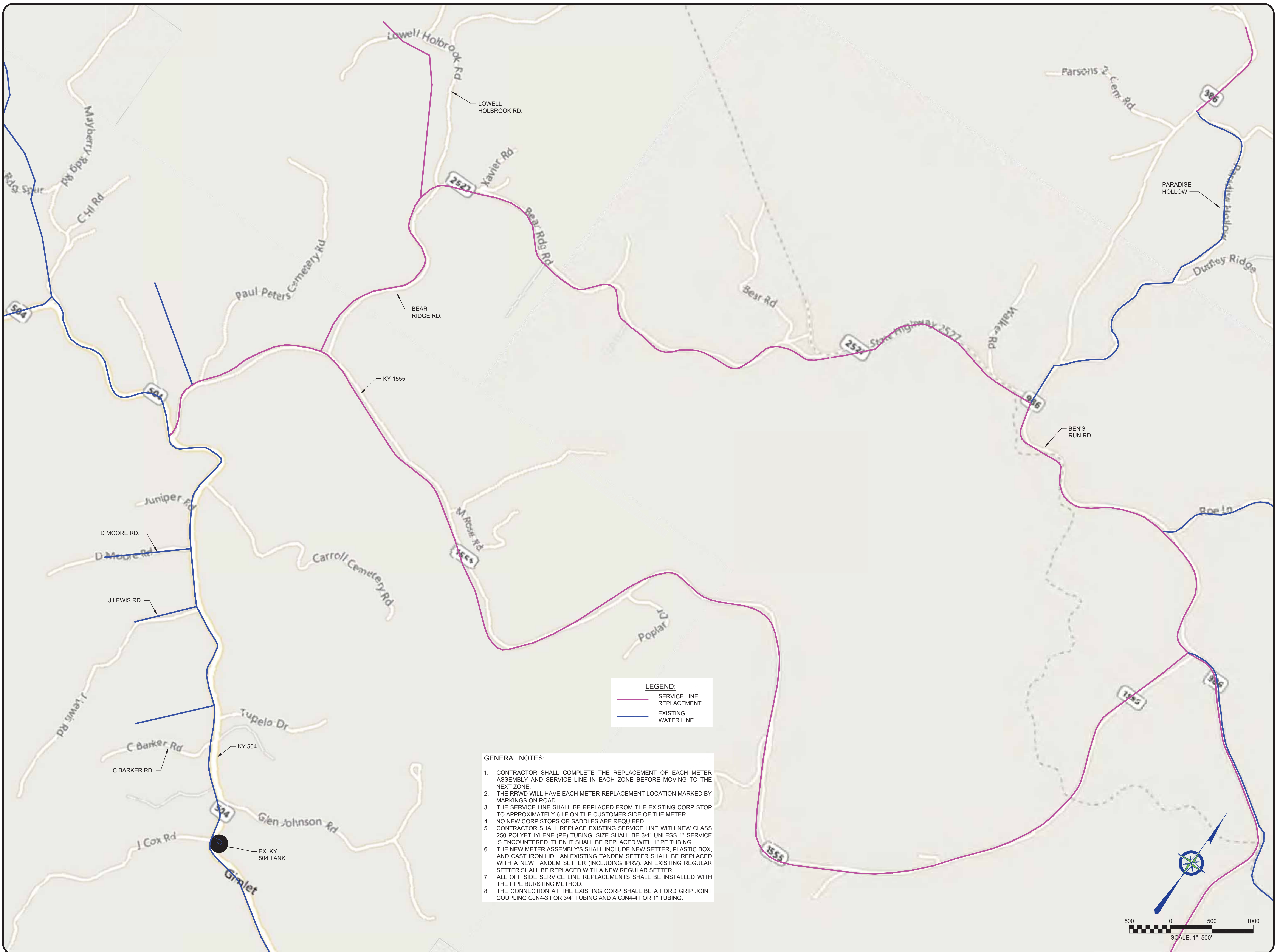
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PHASE 12 WATER SYSTEM IMPROVEMENTS  
 CONTRACT 2  
 SERVICE LINE REPLACEMENT



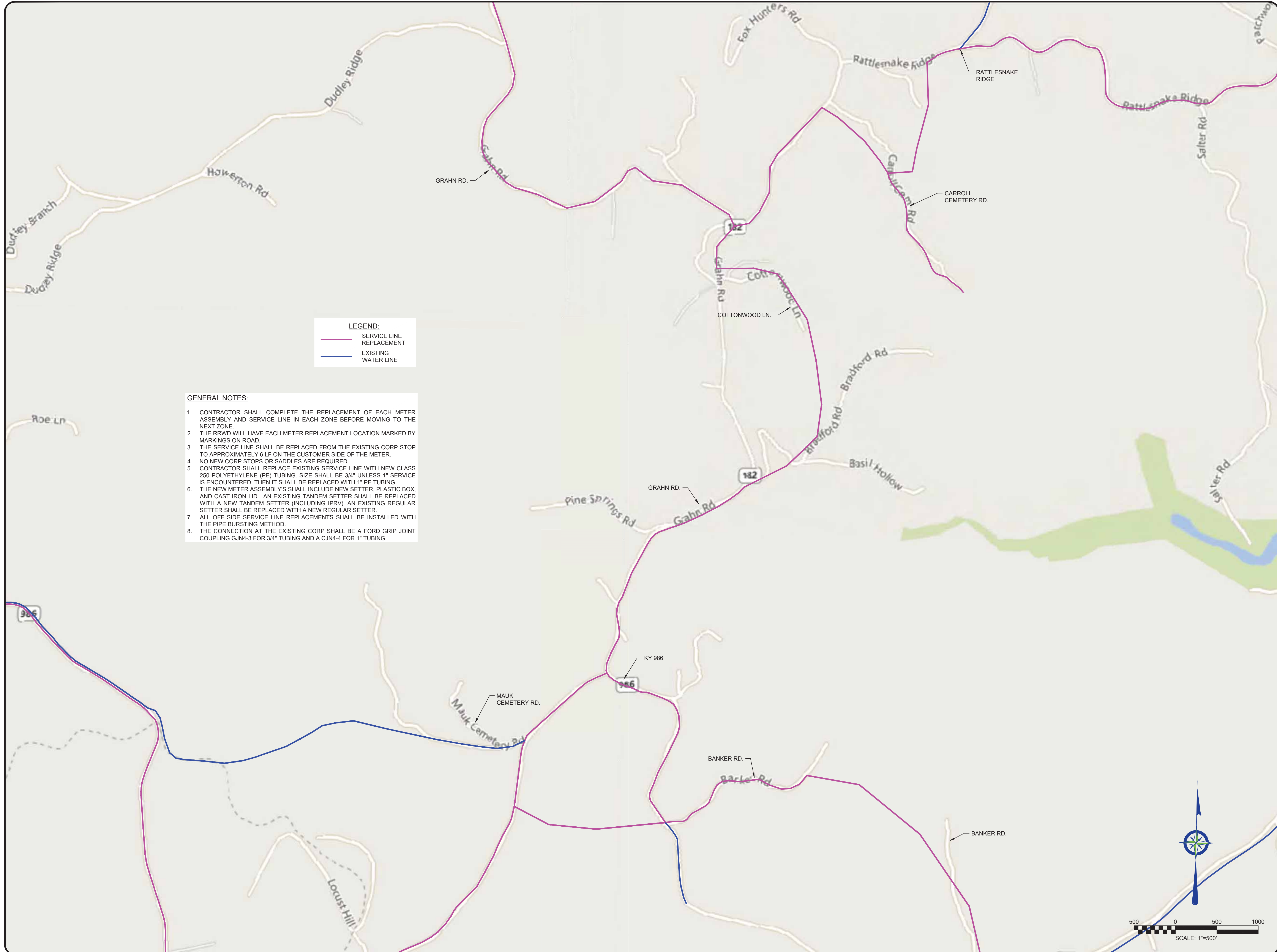
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**PHASE 12 WATER SYSTEM IMPROVEMENTS  
CONTRACT 2**

**SERVICE LINE REPLACEMENT**

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

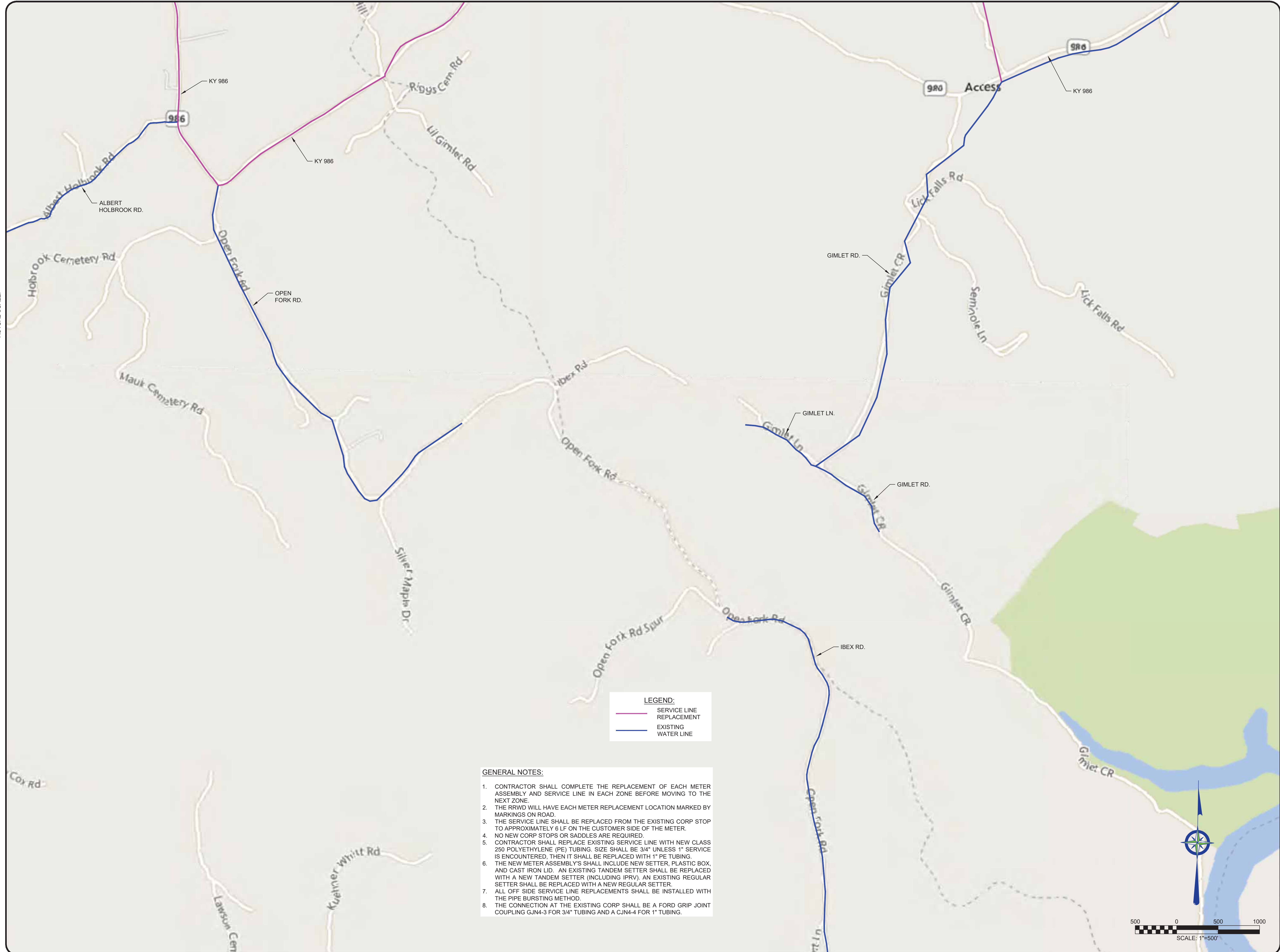
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PHASE 12 WATER SYSTEM IMPROVEMENTS  
 CONTRACT 2  
 SERVICE LINE REPLACEMENT

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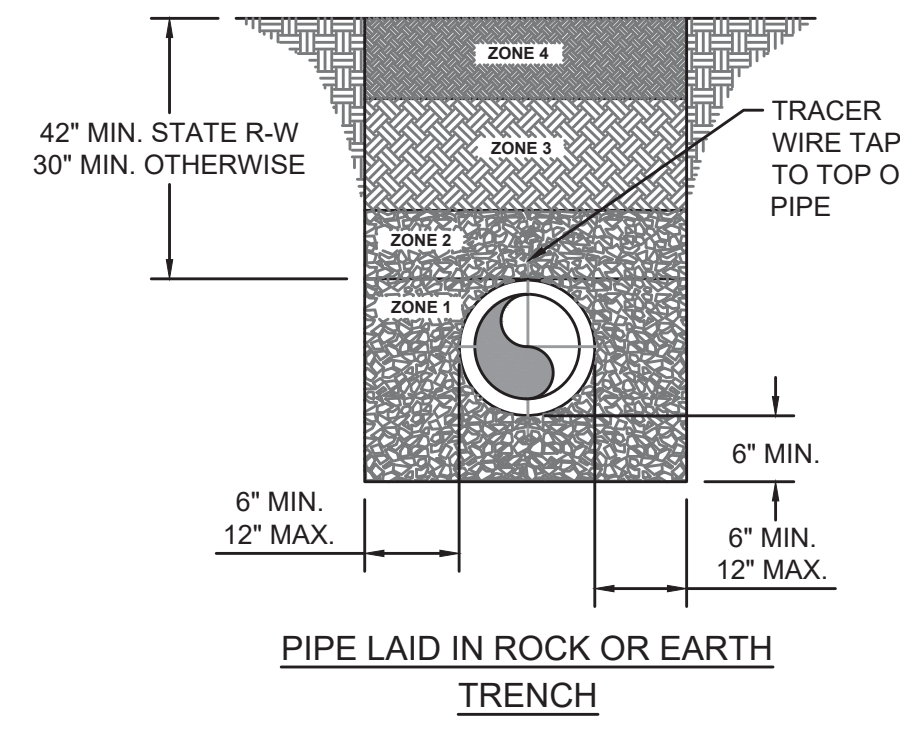
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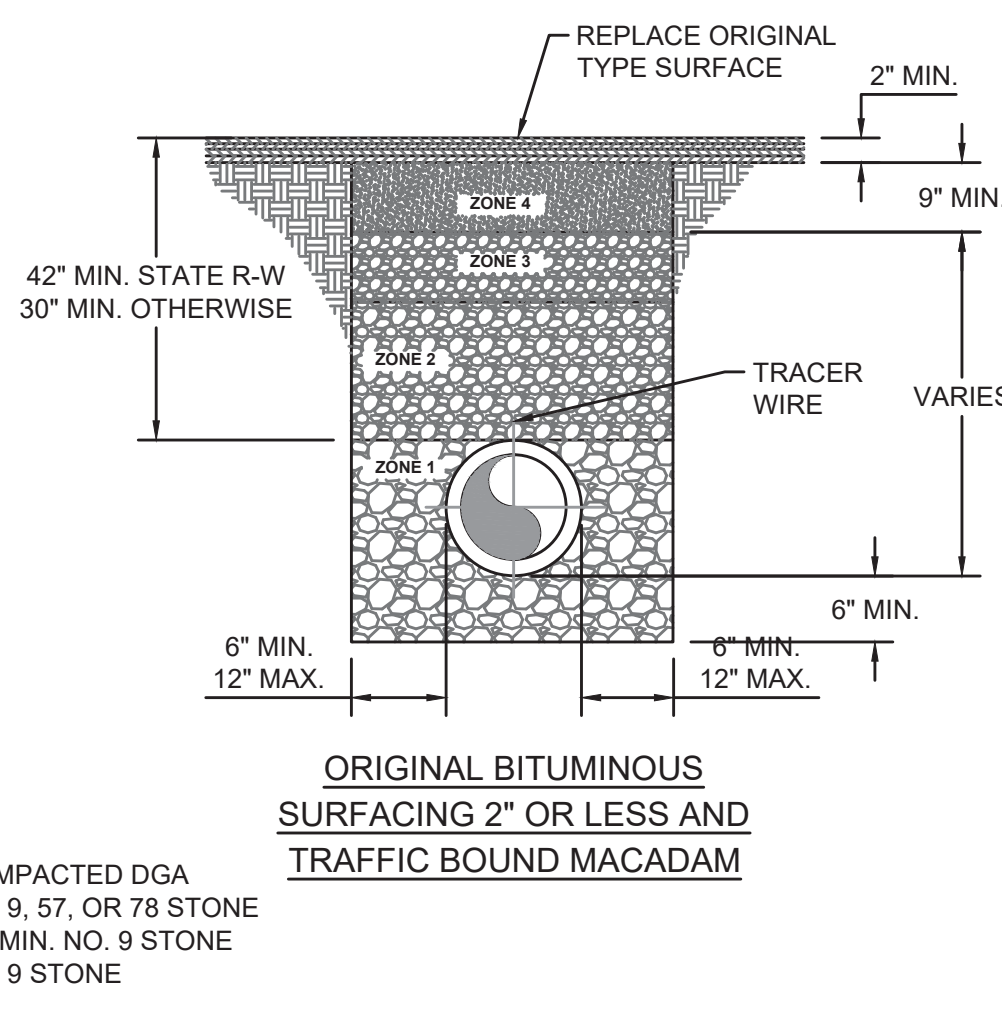
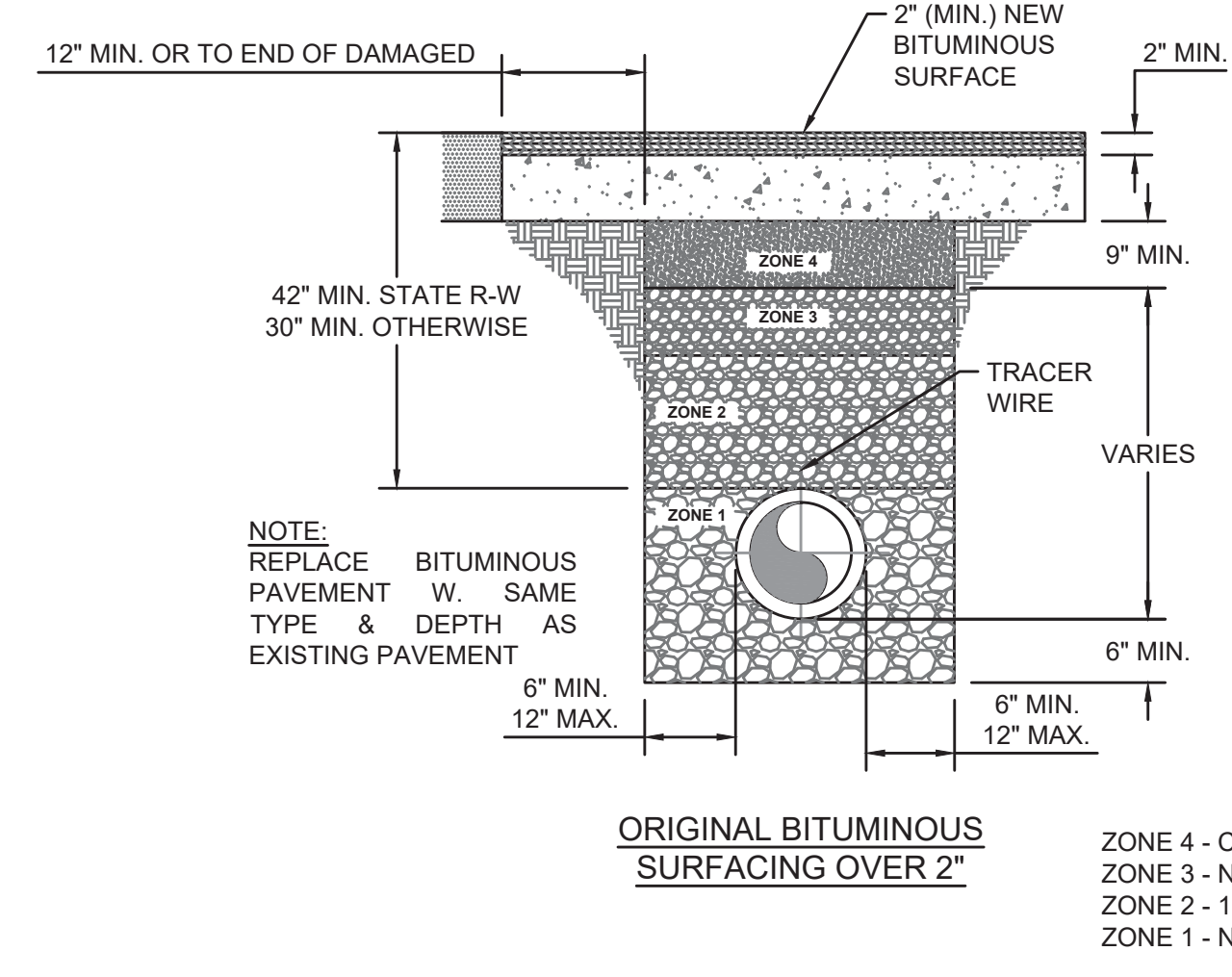


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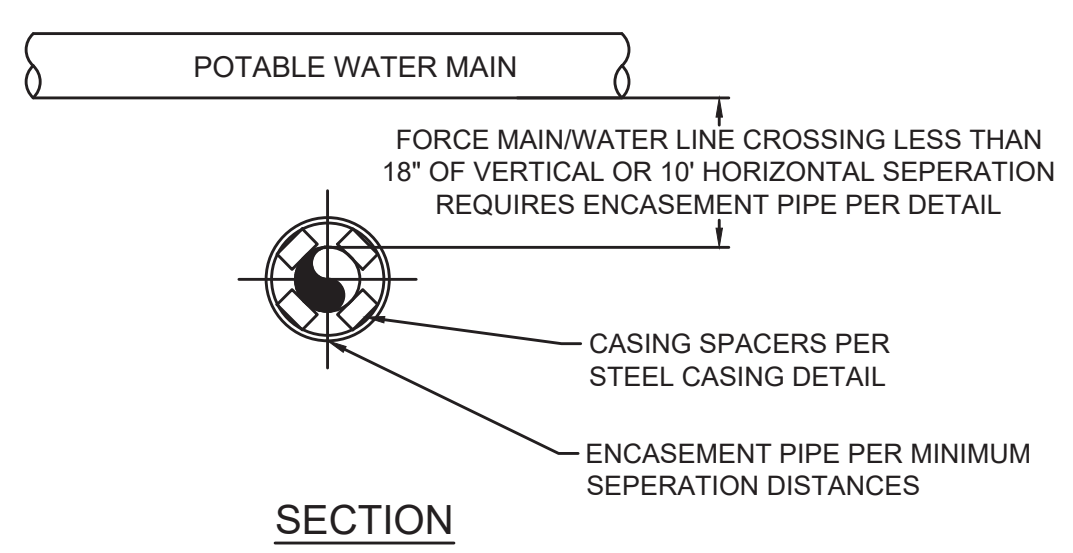
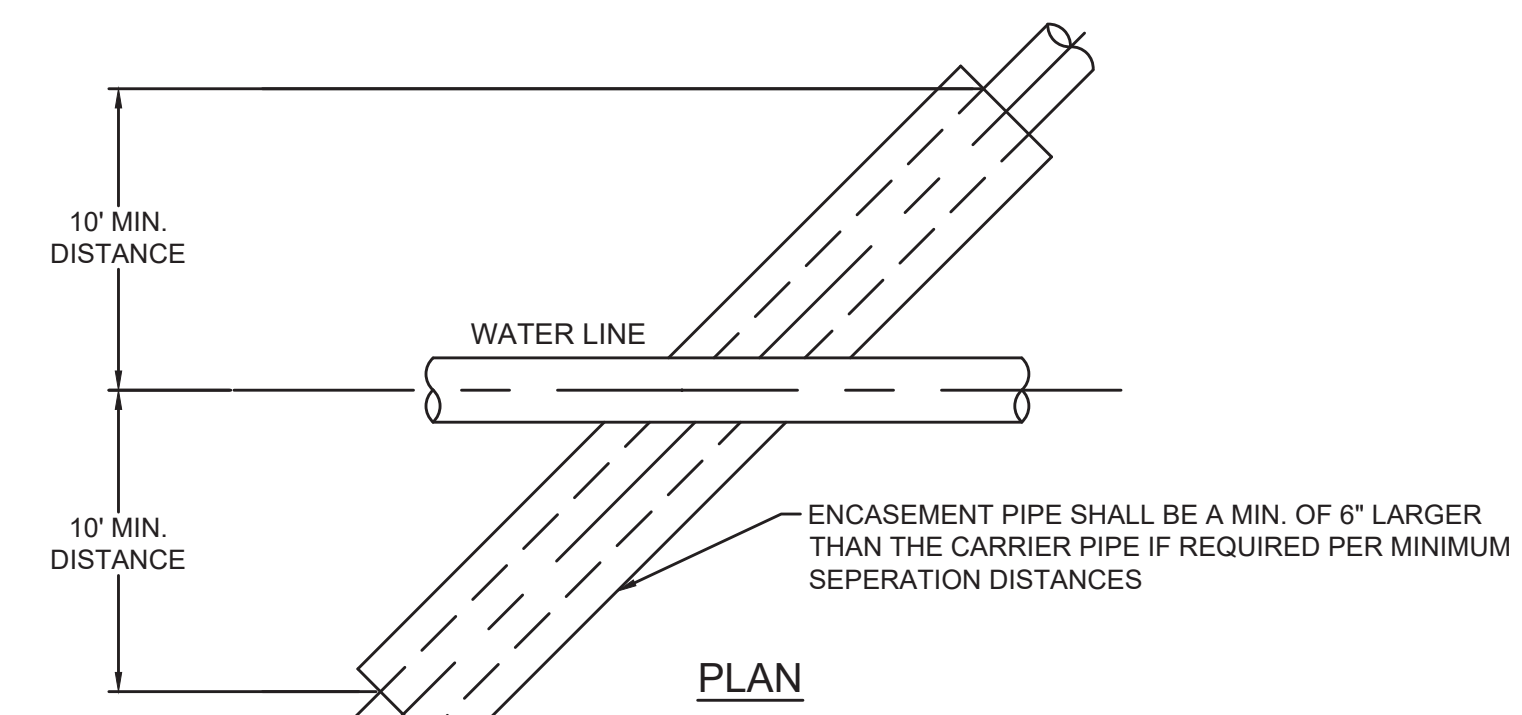


- DETAIL NOTES:**
- COVER UP TO AND INCLUDING ZONE 4 SHALL BE ESTABLISHED BEFORE TRENCH EXCAVATION.
  - ZONE 4 - 6" MIN. CONSOLIDATION EARTH BACKFILL INCLUDING TOPSOIL, NO ROCK ALLOWED.
  - ZONE 3 - CONSOLIDATED SOIL, (NO ROCK GREATER THAN 6" DIAMETER) NO. 9, 57 OR 78 STONE
  - ZONE 2 - FROM THE SPRINGLINE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

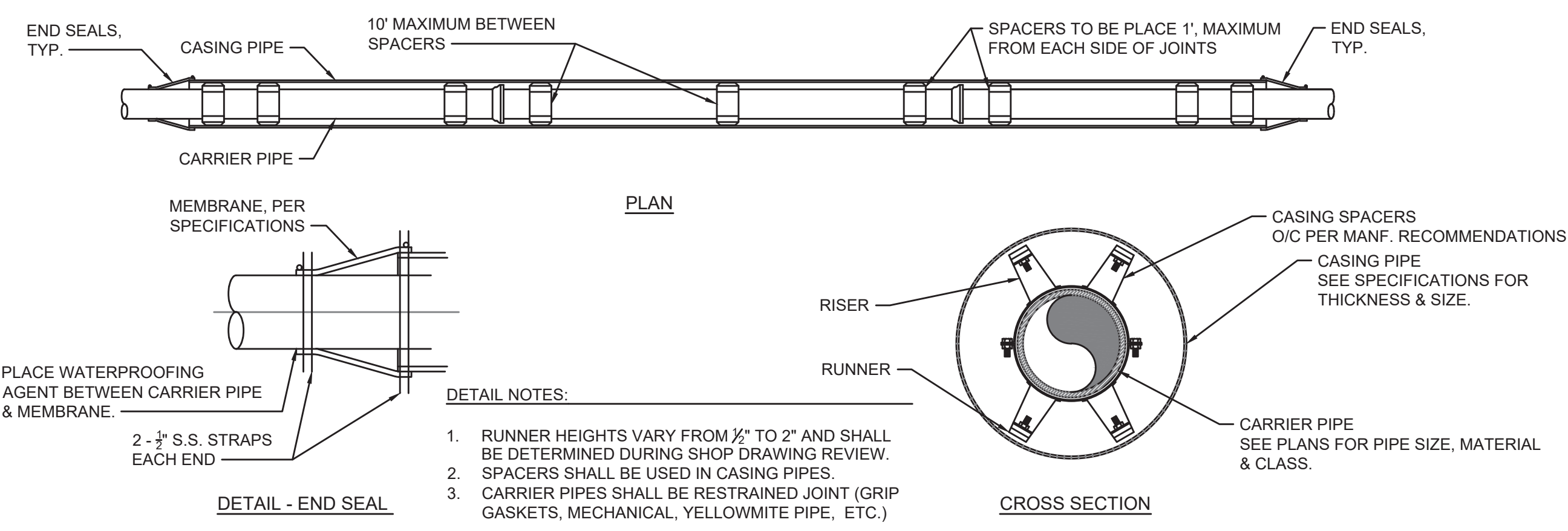


- ZONE 4 - COMPACTED DGA
- ZONE 3 - NO. 9, 57, OR 78 STONE
- ZONE 2 - 12" MIN. NO. 9 STONE
- ZONE 1 - NO. 9 STONE

**PIPE BACKFILL - DETAIL**  
NOT TO SCALE



**POTABLE WATER LINE & FORCE MAIN CROSSING - DETAIL**  
NOT TO SCALE



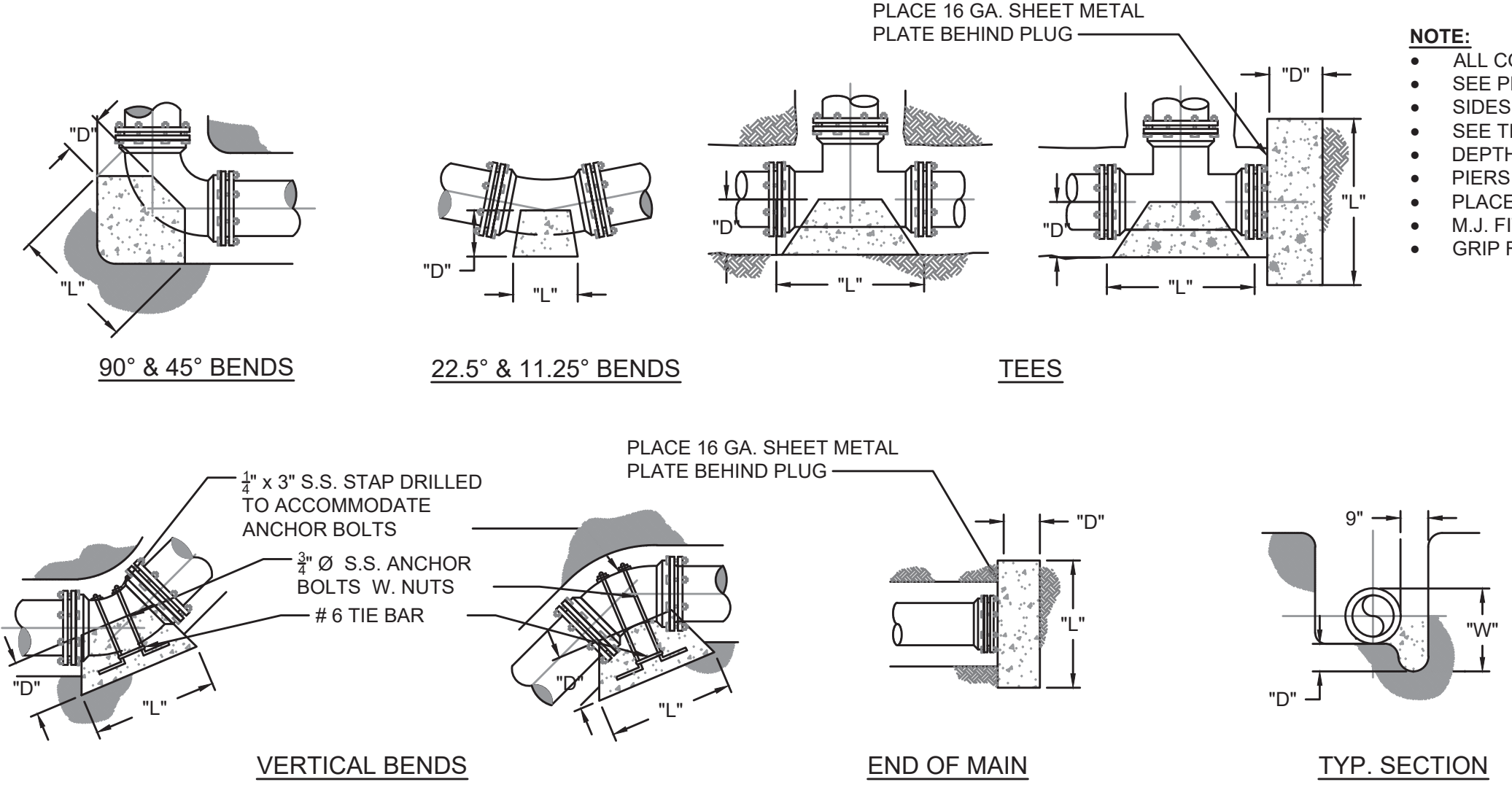
- DETAIL NOTES:**
- RUNNER HEIGHTS VARY FROM 1/2" TO 2" AND SHALL BE DETERMINED DURING SHOP DRAWING REVIEW.
  - SPACERS SHALL BE USED IN CASING PIPES.
  - CARRIER PIPES SHALL BE RESTRAINED JOINT (GRIP GASKETS, MECHANICAL, YELLOWMITE PIPE, ETC.)

**CASING - DETAIL**  
NOT TO SCALE

**THRUST BLOCK SCHEDULE**

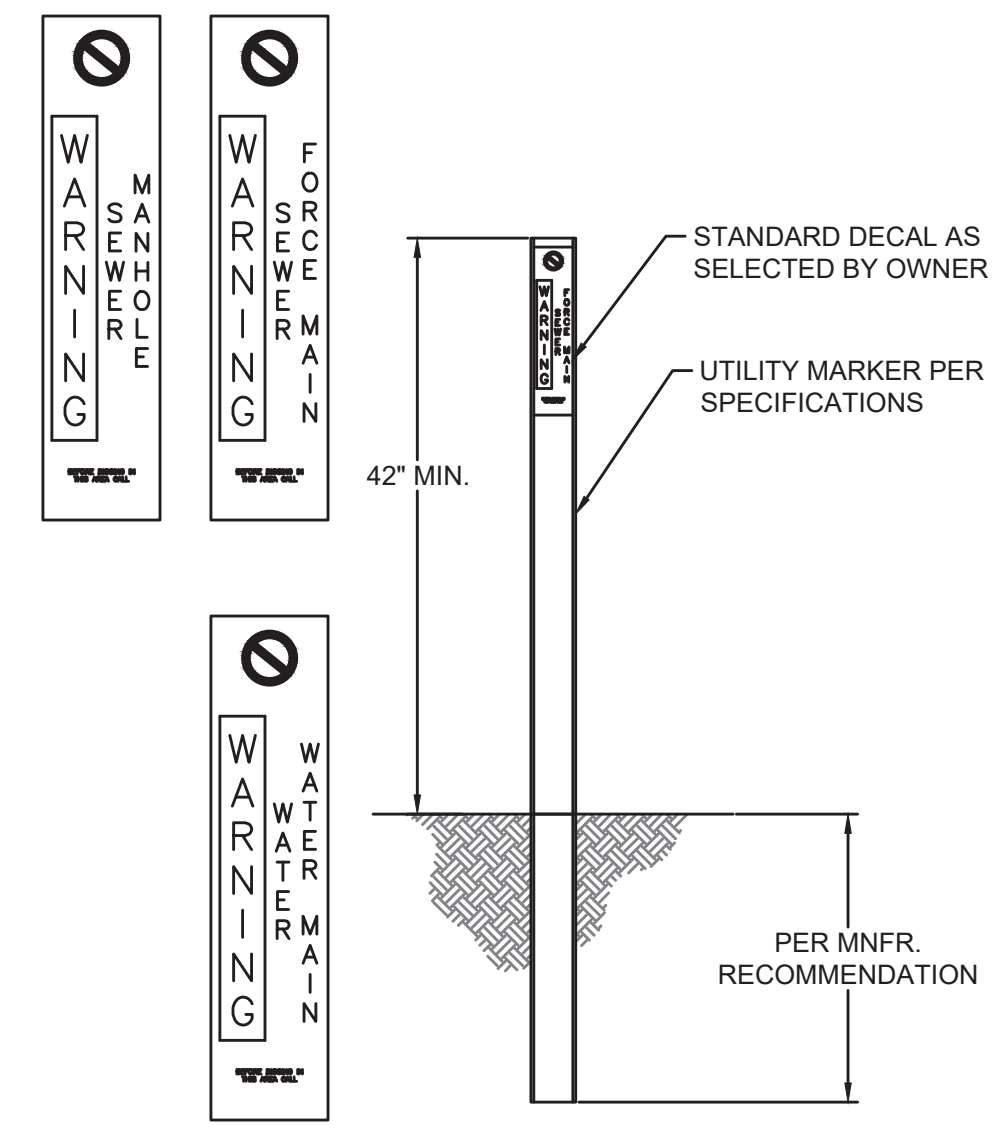
SOIL TYPE - SAND & GRAVEL  
BEARING STRENGTH = 3000 PSF

PIPE SIZE	90° BEND					45° BEND					22 1/2° BEND					11 1/2° BEND					TEE & DEAD ENDS				
	BEARING AREA	YDS OF CONCRETE	D	W	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	.69	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	36	30	37.750	4.63	42	78	66



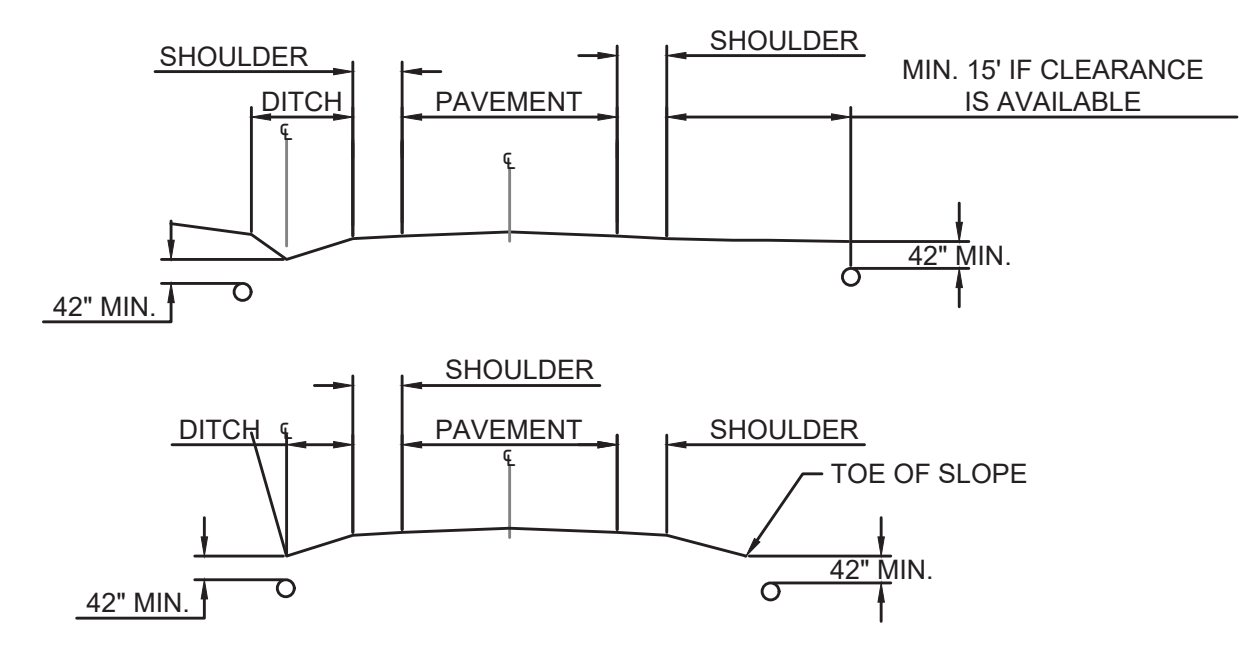
- NOTE:**
- ALL CONCRETE SHALL BE A MIN. OF 3,500 PSI
  - SEE PLAN SHEETS FOR SIZE, MATERIAL & LOCATION OF PIPE.
  - SIDES OF ALL TRENCHES TO BE UNDISTURBED SOIL.
  - SEE THIS SHEET FOR BACK FILL DETAILS.
  - DEPTH "D": MAY NOT BE SMALLER THAN SPECIFIED.
  - PIERS SHALL BE PLACED AGAINST UNDISTURBED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

**CONCRETE THRUST BLOCK - DETAIL**  
NOT TO SCALE

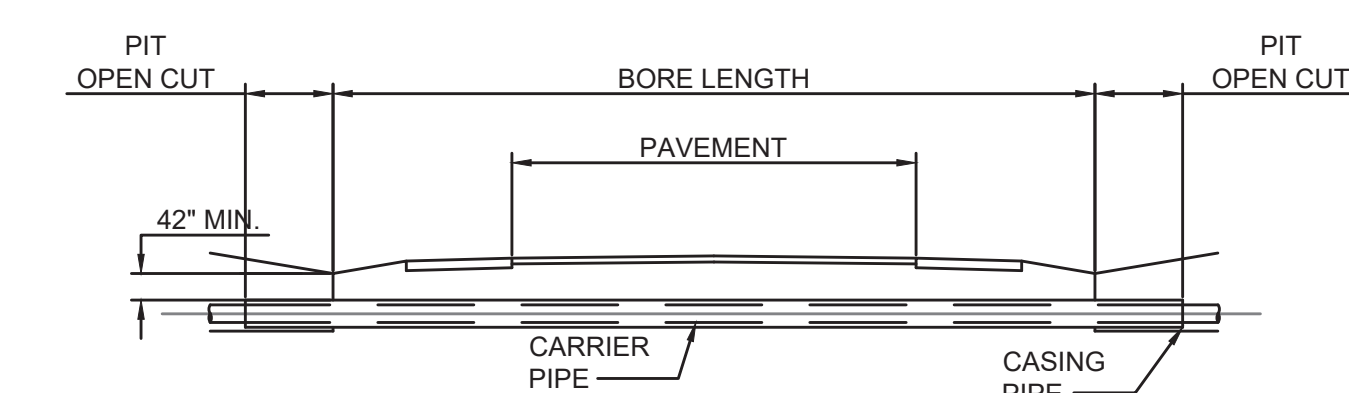


**UTILITY MARKER - DETAIL**  
NOT TO SCALE

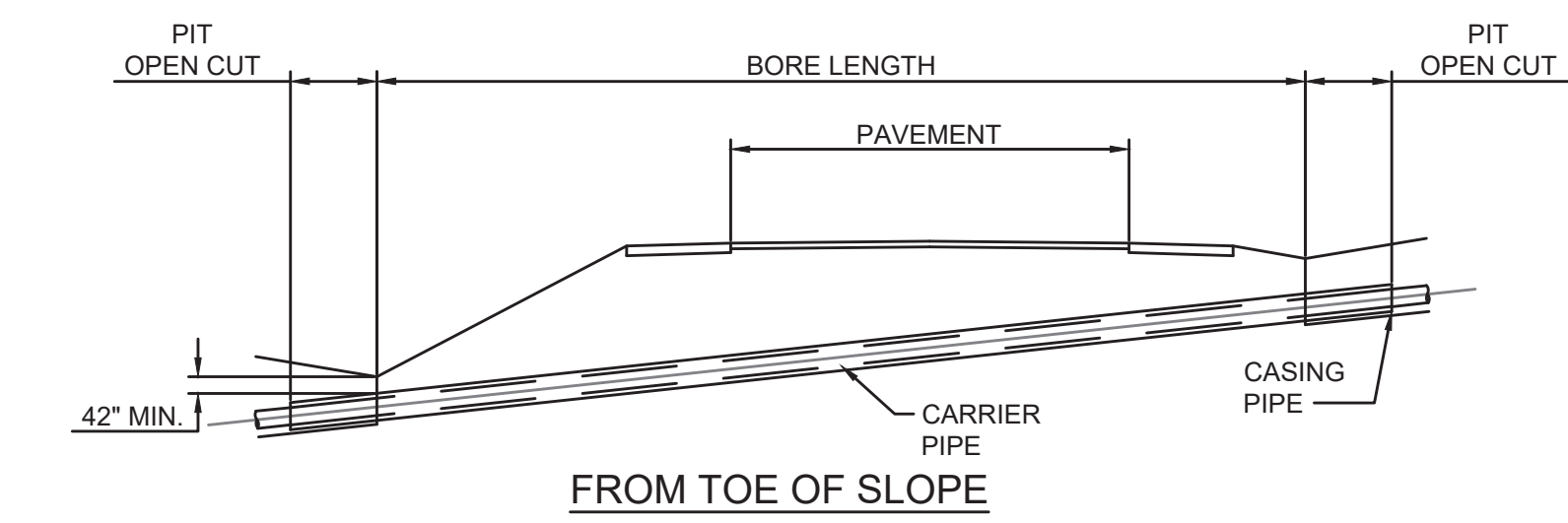
- NOTE:**
- ALL JOINTS OF STEEL CASING SHALL BE SOLIDLY WELDED. END OF CASING SHALL BE SEALED AFTER LINE HAS BEEN INSTALLED AND TESTED.
  - MINIMUM DEPTHS MAY INCREASE IN AREAS WHICH REQUIRE MINIMUM SEPARATION WITH OTHER FACILITIES.
  - OPEN TRENCH NO CLOSER THAN THE DITCHLINE OR TOE OF FILL FROM THE 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.



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



**OFFSET FROM EDGE OF PAVEMENT**



**KTC CROSSING - DETAIL**  
NOT TO SCALE

NO.	DATE	REVISIONS	BY

PHASE 12 WATER SYSTEM IMPROVEMENTS  
CONTRACT 2

STANDARD DETAILS - PIPE LINES



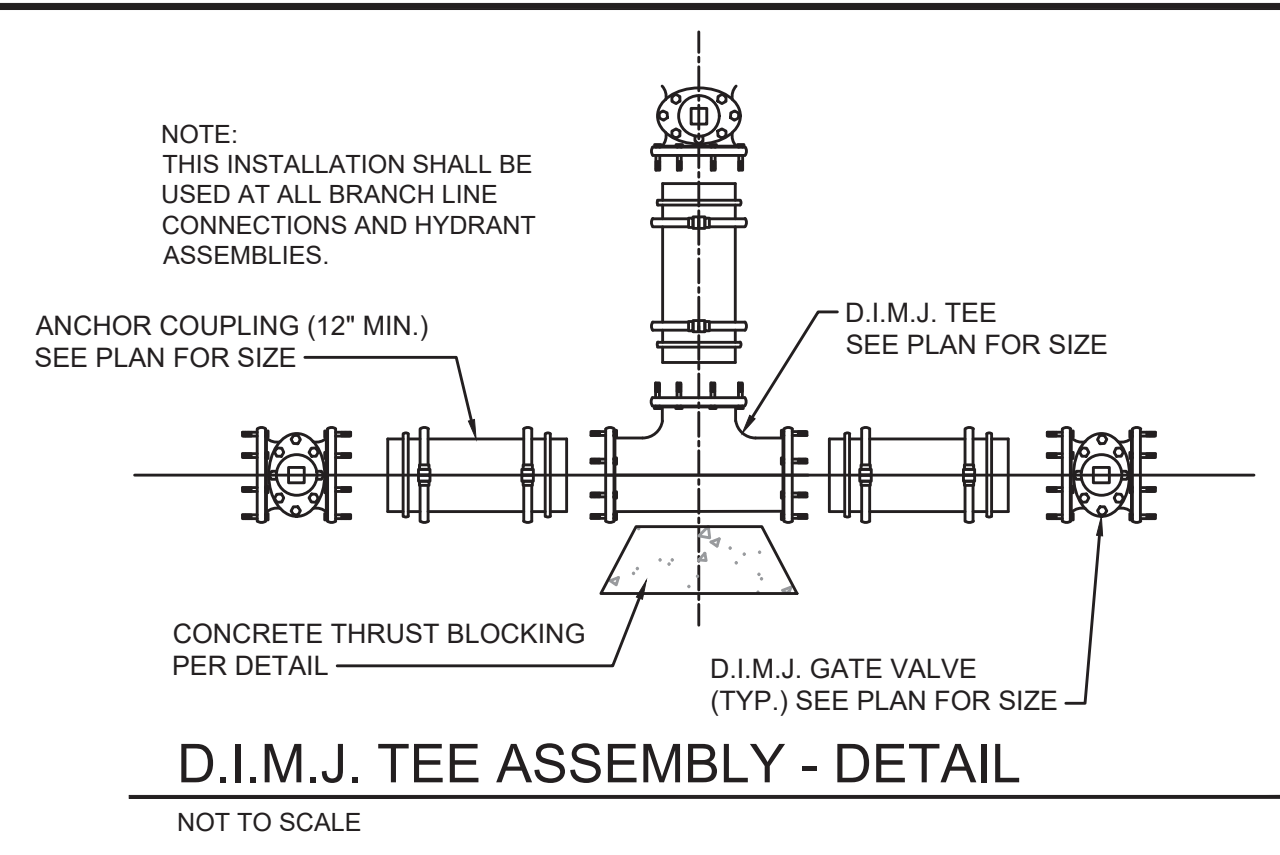
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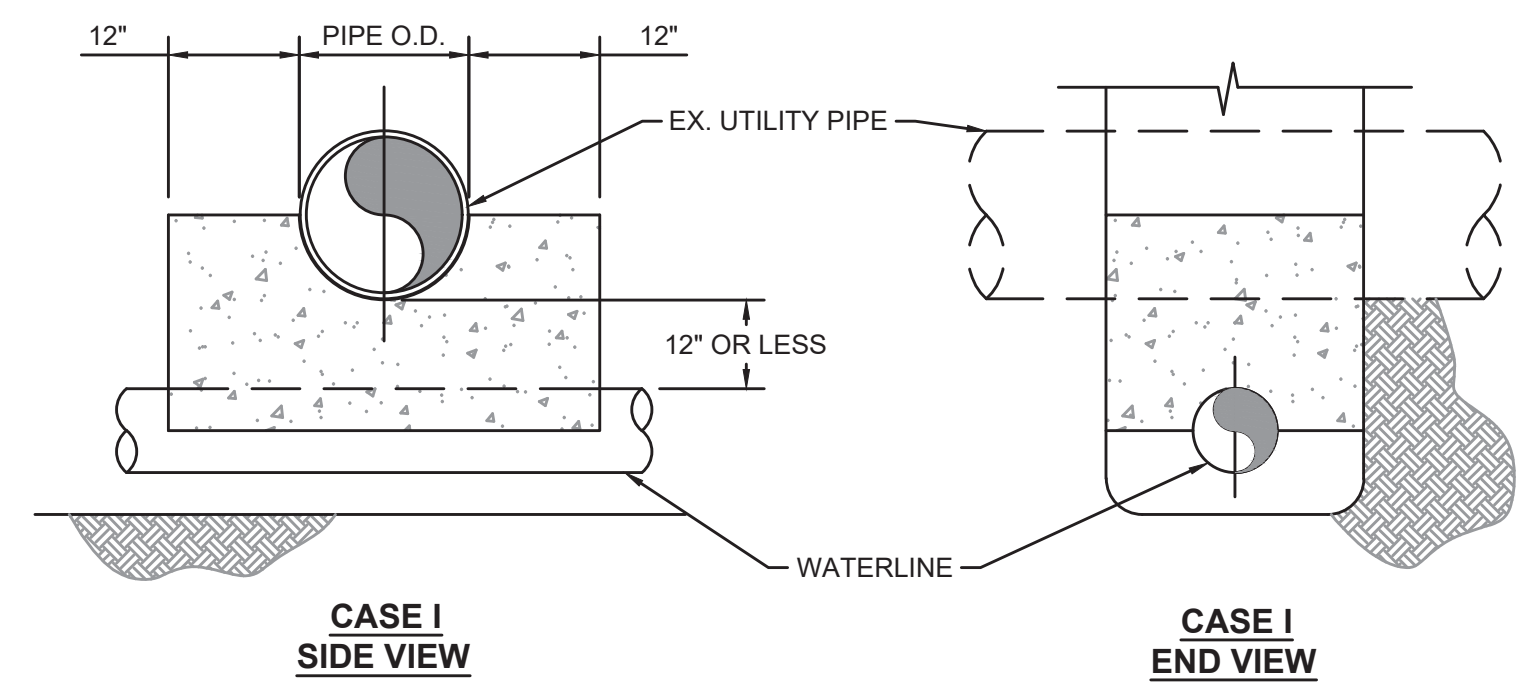
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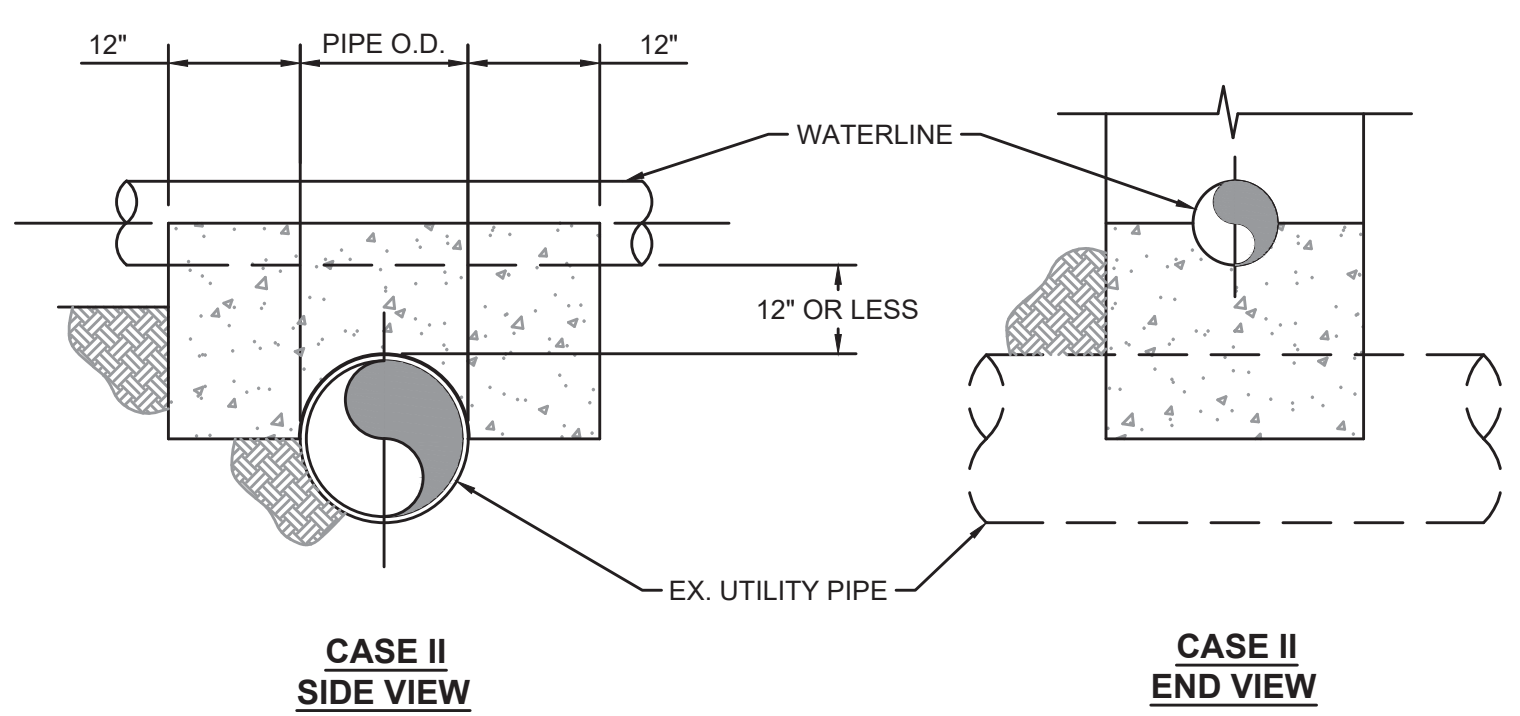
**D.I.M.J. TEE ASSEMBLY - DETAIL**  
NOT TO SCALE

- 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".



**CASE I SIDE VIEW**

**CASE I END VIEW**

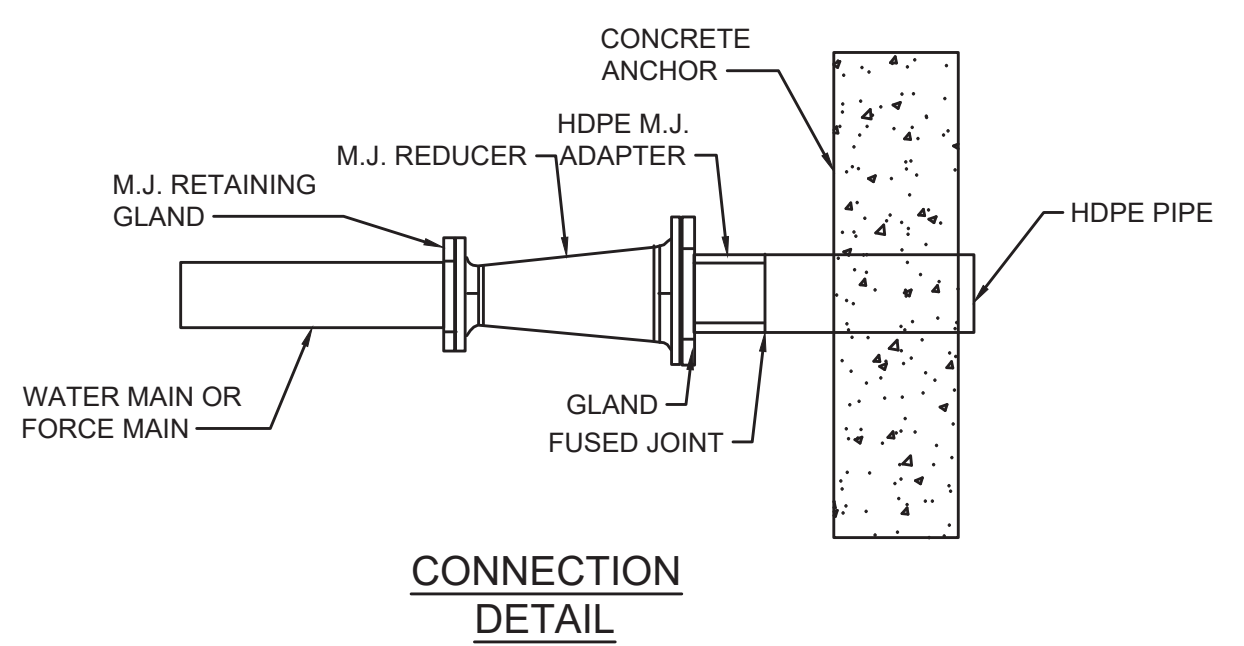


**CASE II SIDE VIEW**

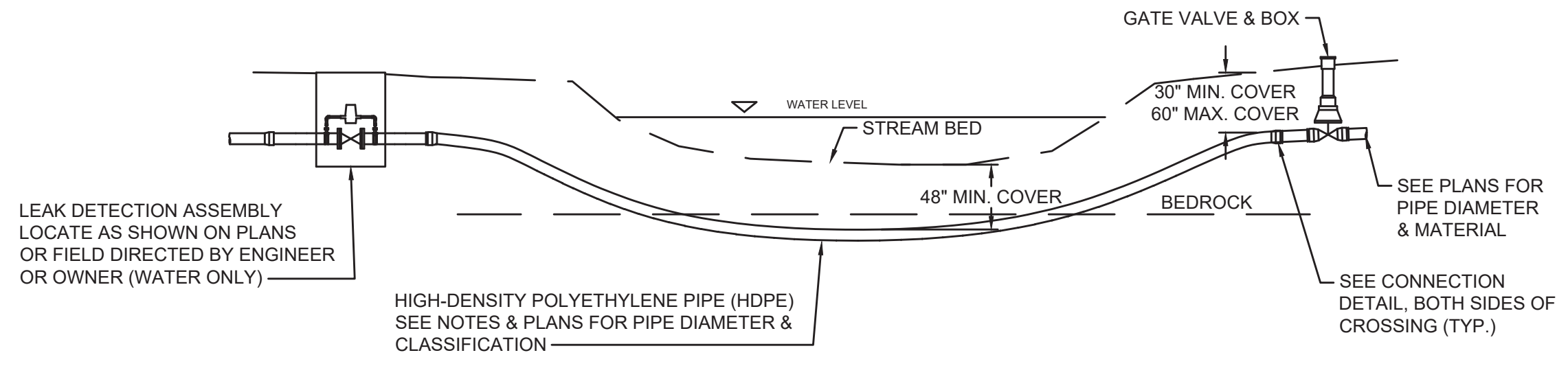
**CASE II END VIEW**

**UTILITY CROSSING CONCRETE ASSEMBLY - DETAIL**  
NOT TO SCALE

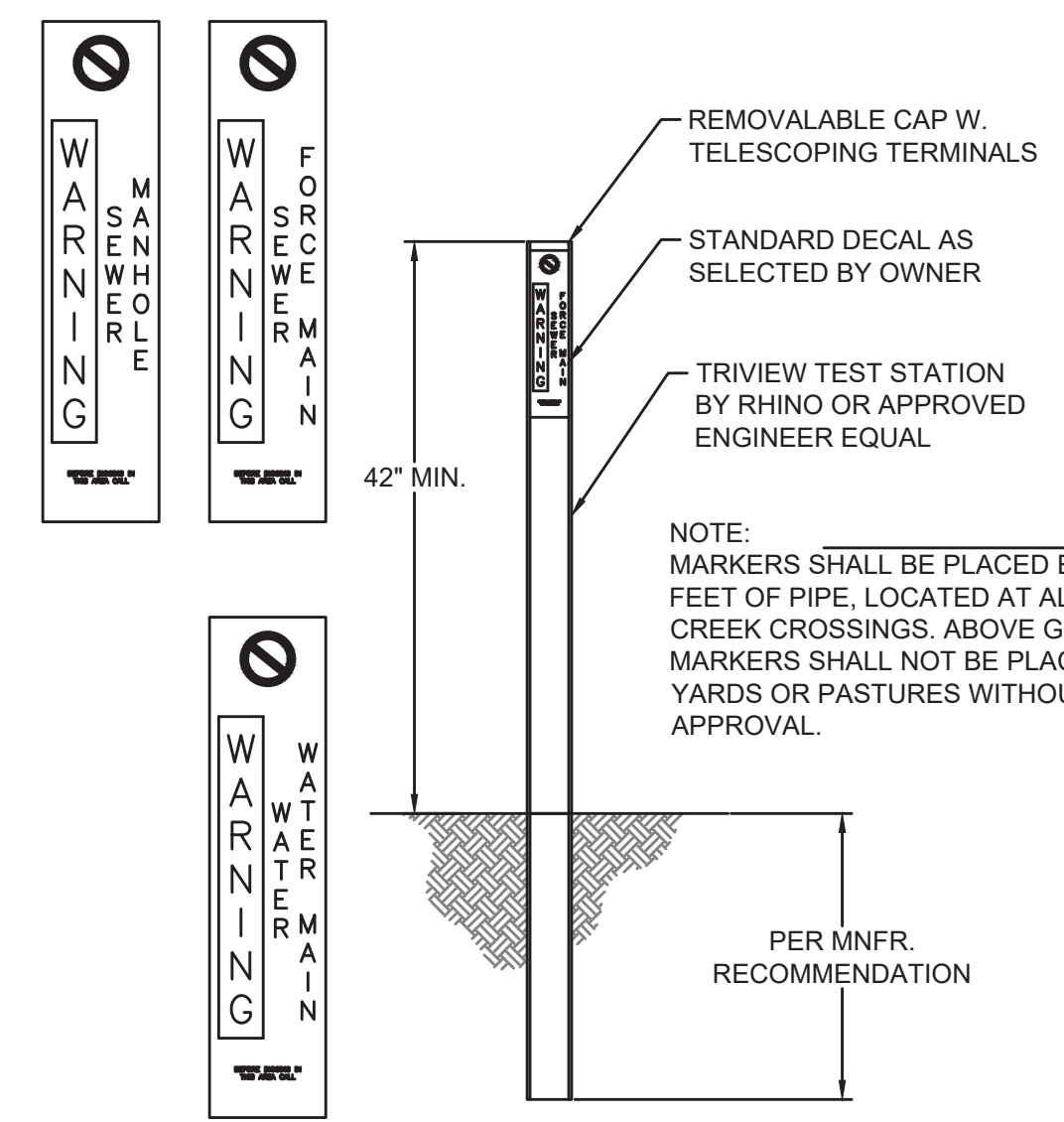
- NOTES:
- CONNECTION OF THE HDPE TO THE PVC OR DUCTILE IRON WATERLINE SHALL BE NO DEEPER THAN 5 FEET FROM THE GROUND ELEVATION.
  - DIRECTIONAL BORE SHALL BE MADE IN BED ROCK WITH A MIN DEPTH OF 36".
  - WHEN USING HDPE THE PIPE SHALL BE SIZED UP ONE PIPE SIZE TO ALLOW THE I.D. OF THE HDPE TO EQUAL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



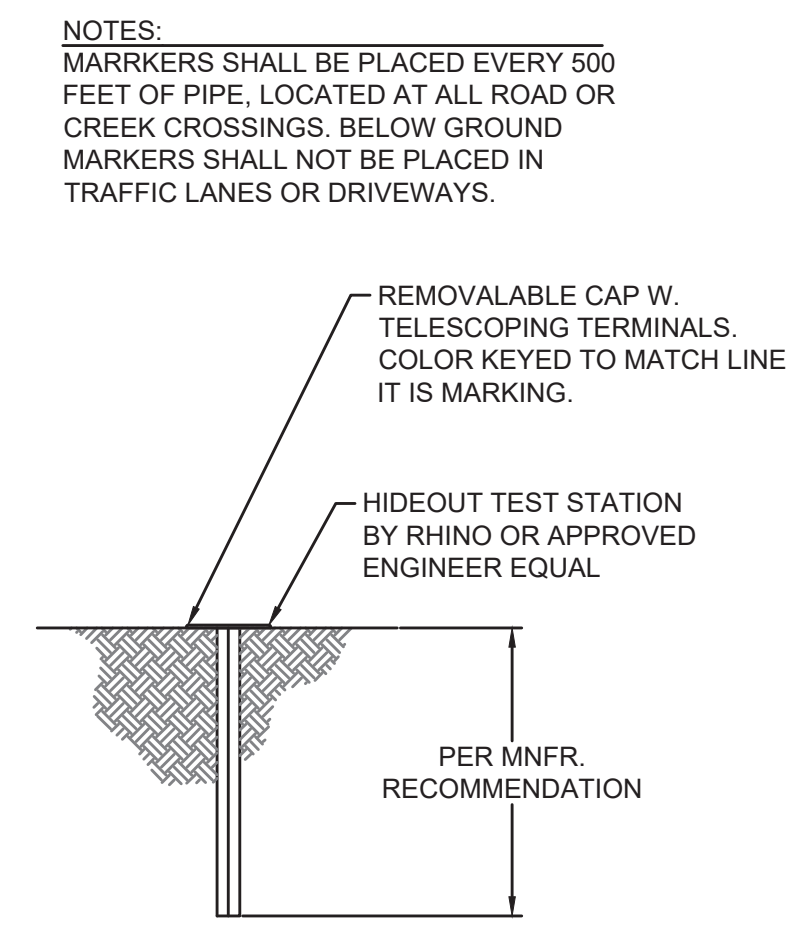
**CONNECTION DETAIL**



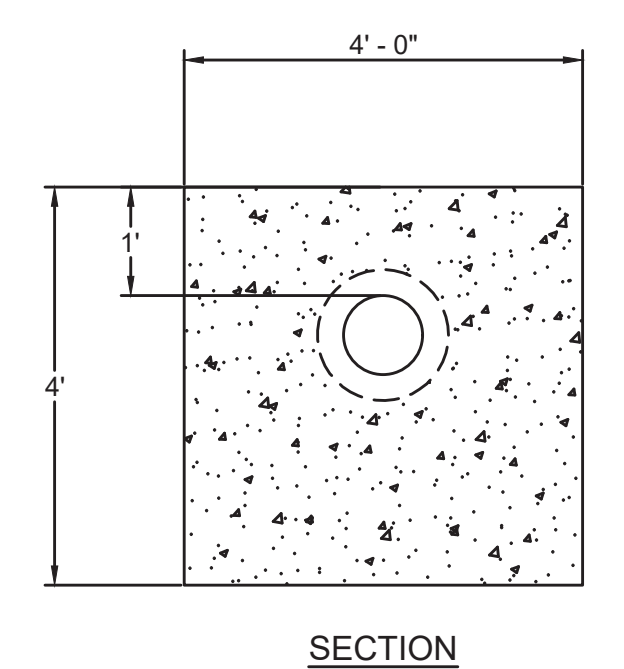
**DIRECTIONAL DRILLED CREEK CROSSING - DETAIL**  
NOT TO SCALE



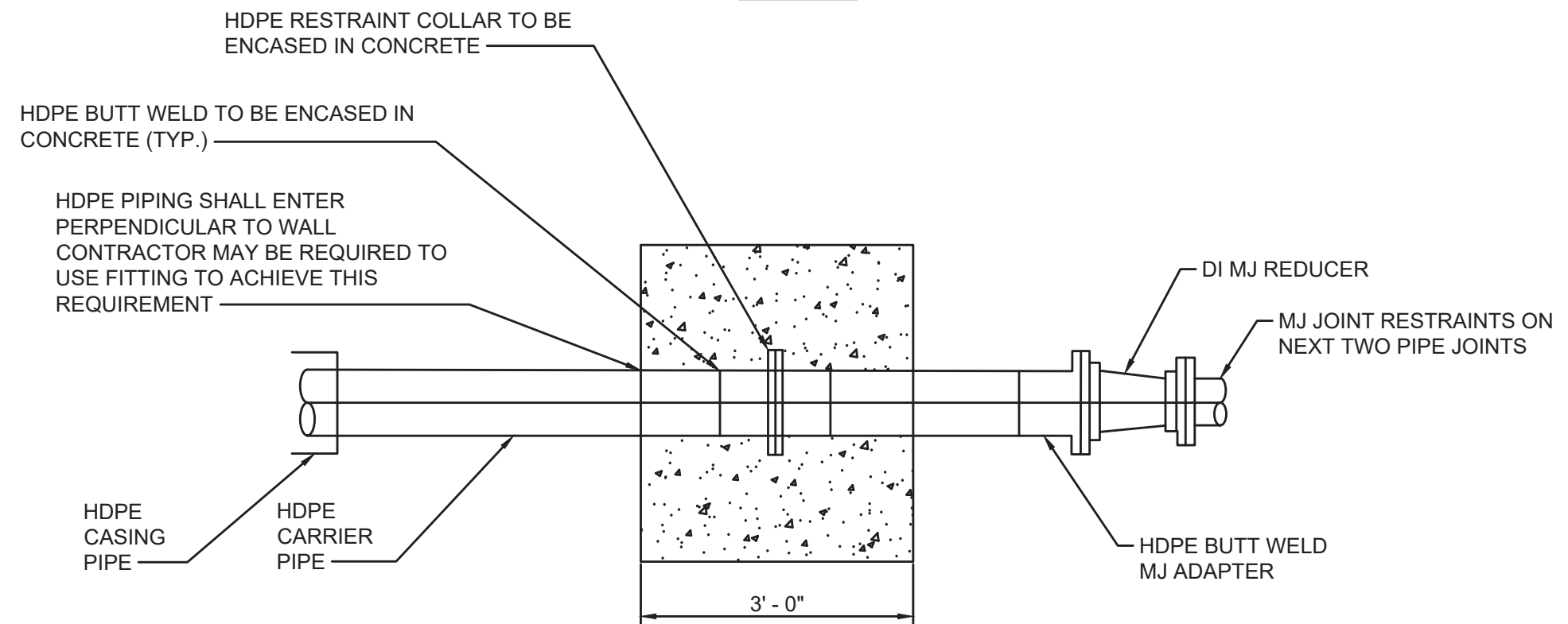
**ABOVE GROUND TEST STATION - DETAIL**  
NOT TO SCALE



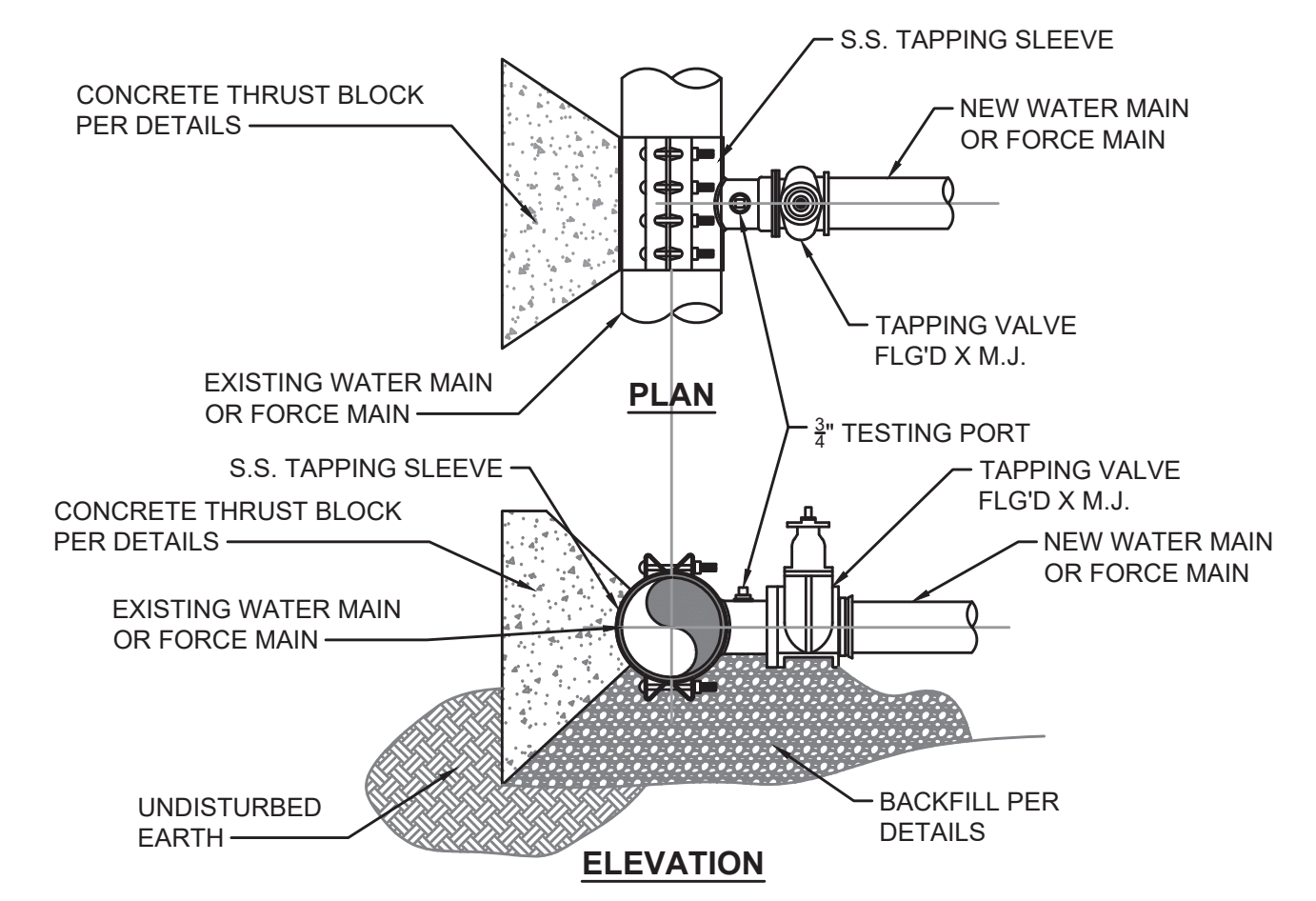
**BELOW GROUND TEST STATION - DETAIL**  
NOT TO SCALE



**SECTION**

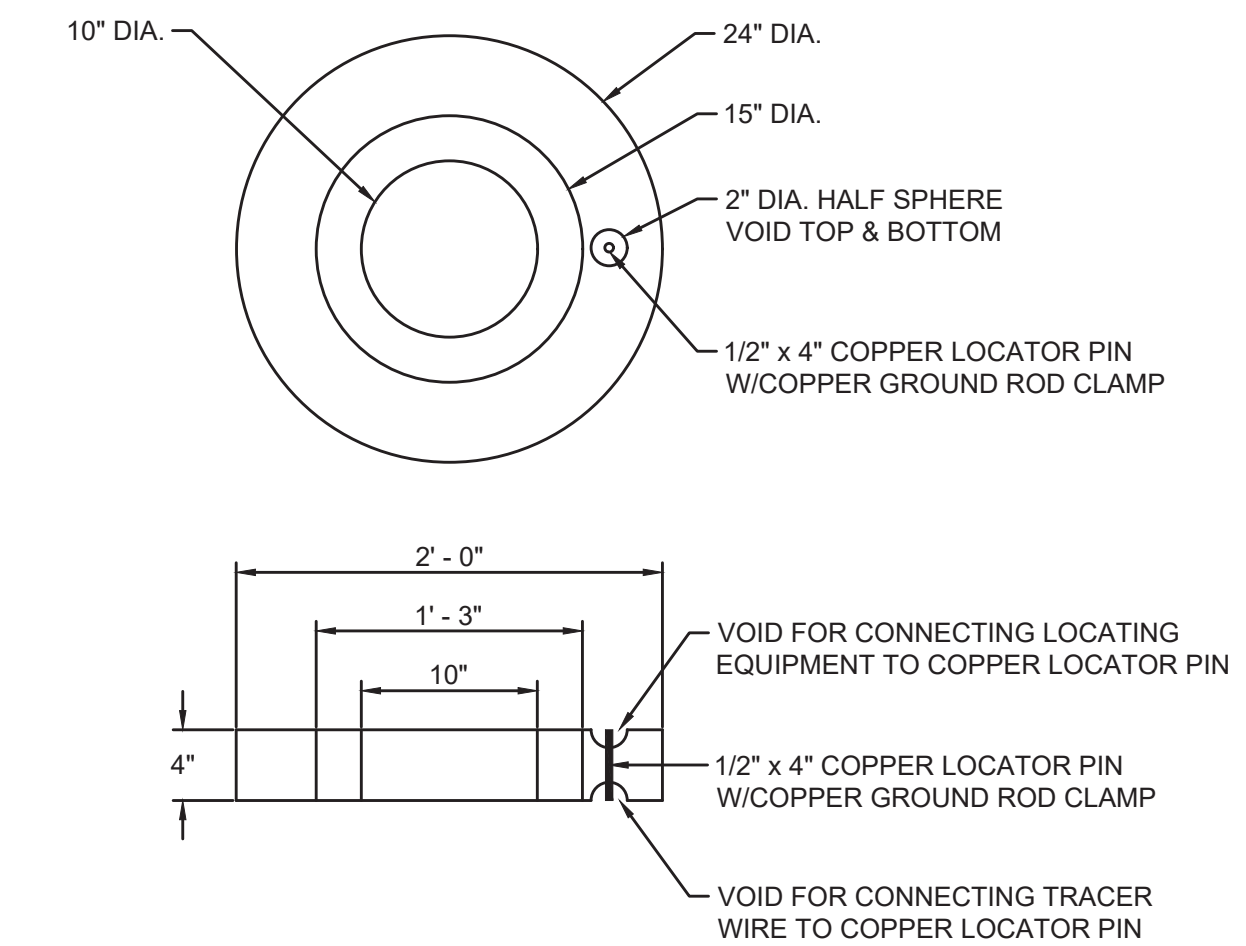


**HDPE RESTRAINT WALL**  
NOT TO SCALE



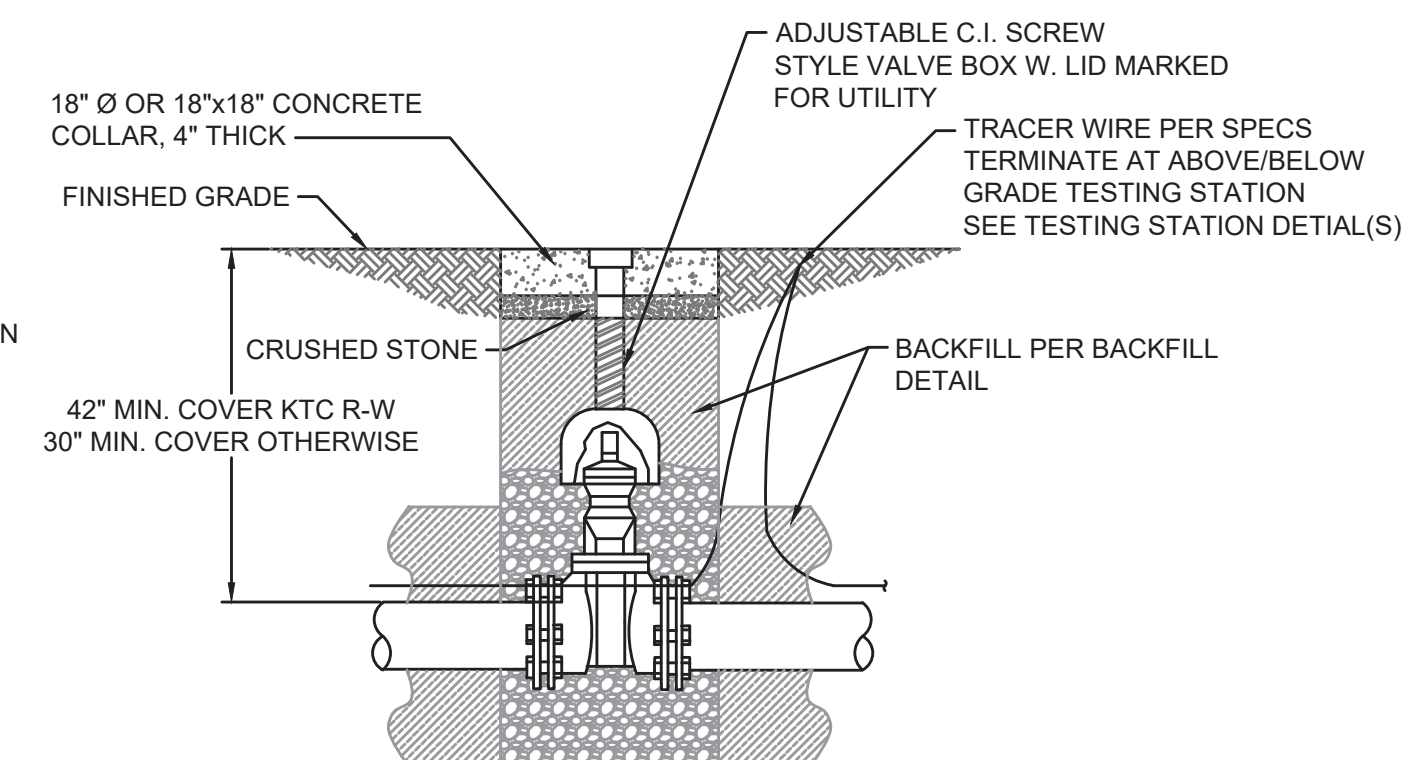
**STAINLESS STEEL TAPPING SLEEVE & VALVE ASSEMBLY - DETAIL**  
NOT TO SCALE

- NOTE:
- TAPPING SLEEVE & VALVE TO BE TESTED PER MANUFACTURERS RECOMMENDATIONS
  - NO SIZE FOR SIZE TAPPING SLEEVE ALLOWED WITHOUT WRITTEN APPROVAL OF MUPB.



**24\"/>**

NOT TO SCALE



**GATE VALVE ASSEMBLY - DETAIL**  
NOT TO SCALE

NO.	DATE	REVISIONS	BY

**PHASE 12 WATER SYSTEM IMPROVEMENTS CONTRACT 2**

**STANDARD DETAILS - PIPE LINES**

**BLUEGRASS ENGINEERING PLLC**

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

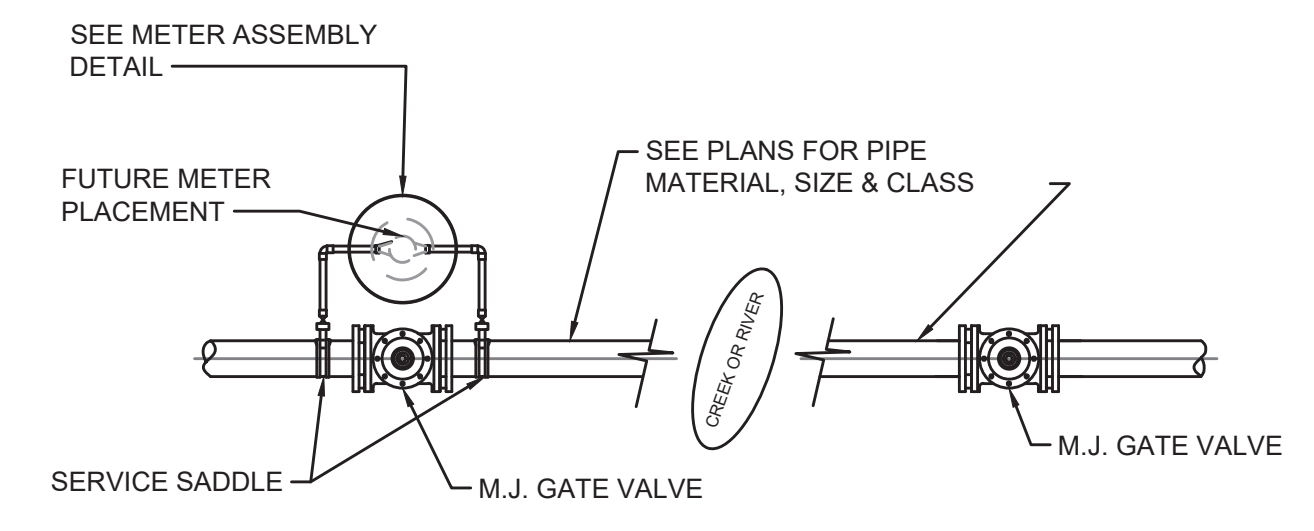
PROJECT #: 20002  
DATE: AUGUST 2022  
PROJECT MGR: LRS  
DRAWN BY: WCM  
CHECKED BY: MRC

PROFESSIONAL ENGINEER

MATTHEW RAY CURTIS  
25716

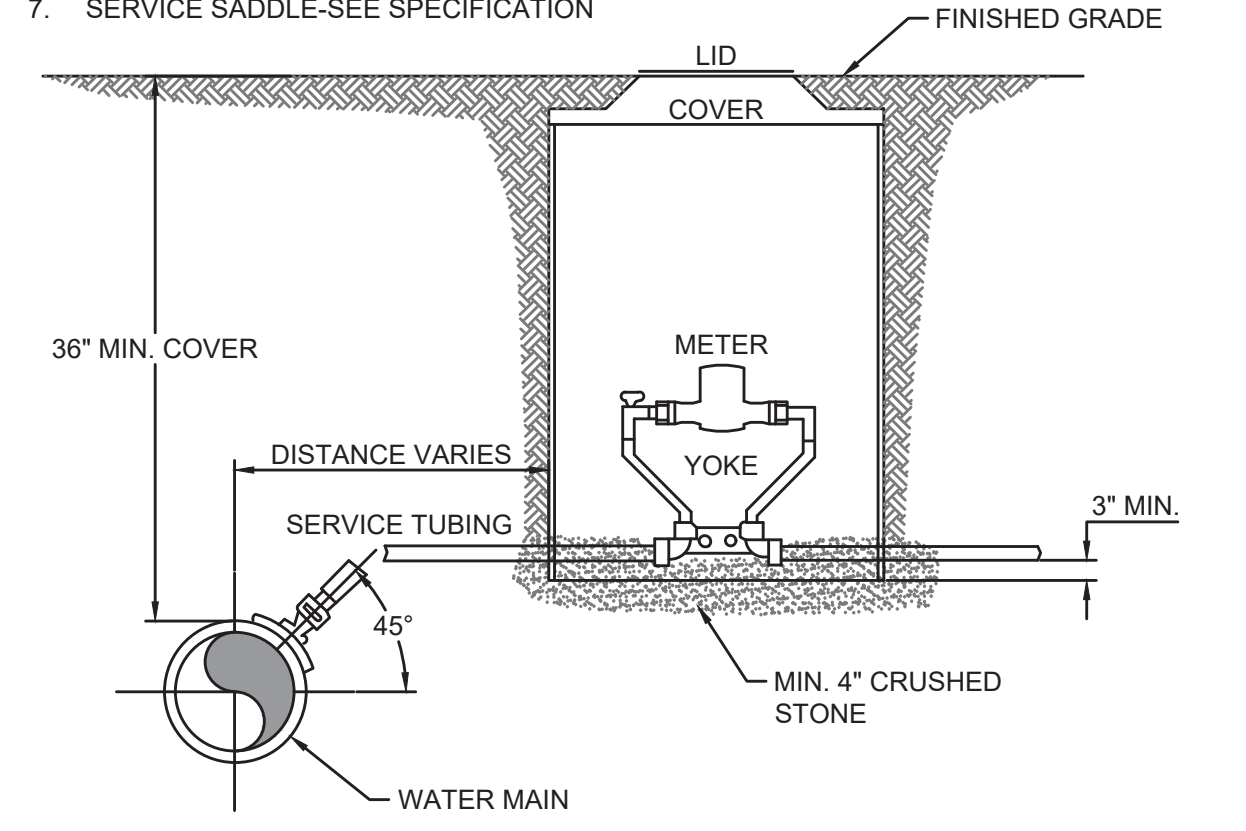


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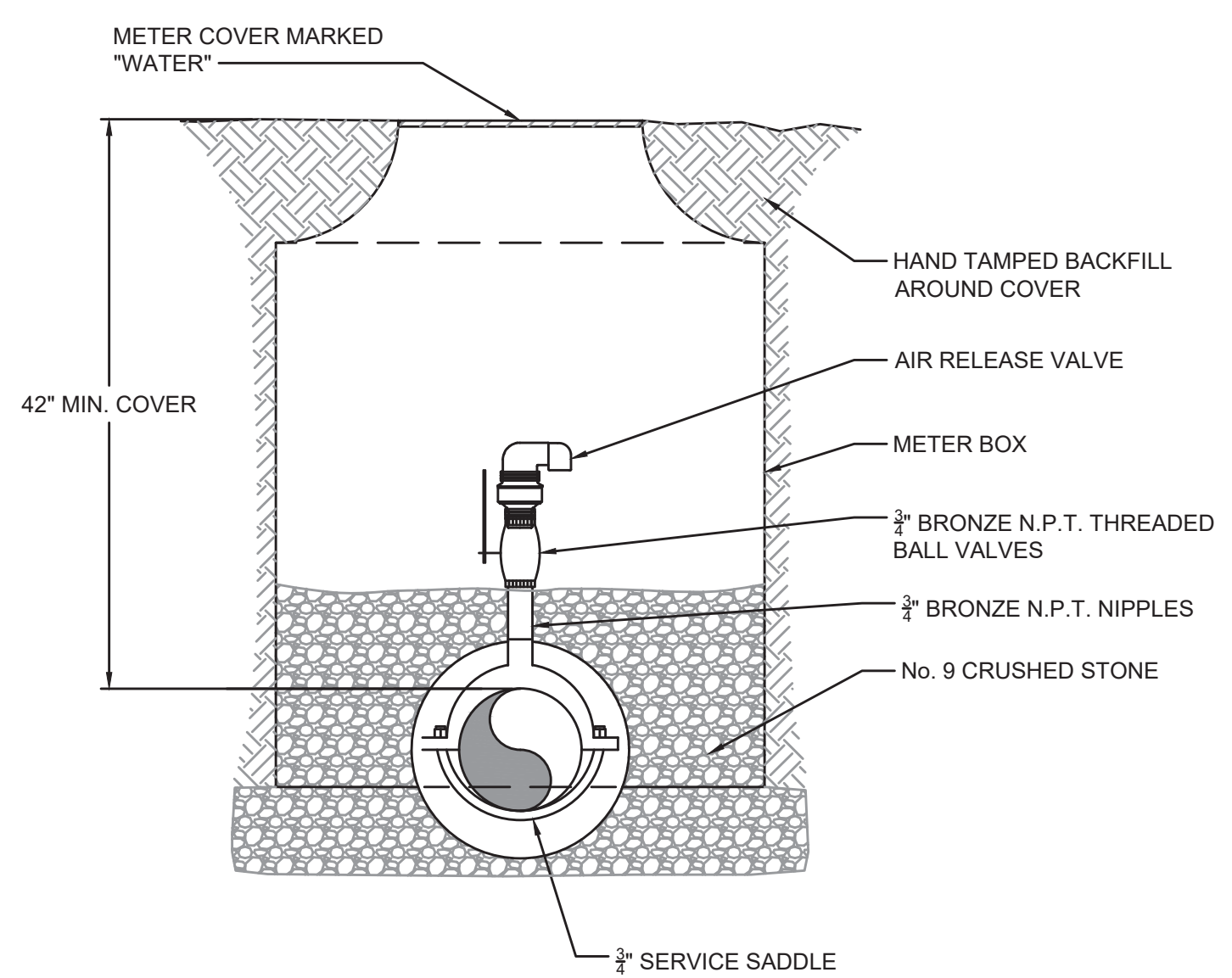


**LEAK DETECTION ASSEMBLY - DETAIL**  
 NOT TO SCALE

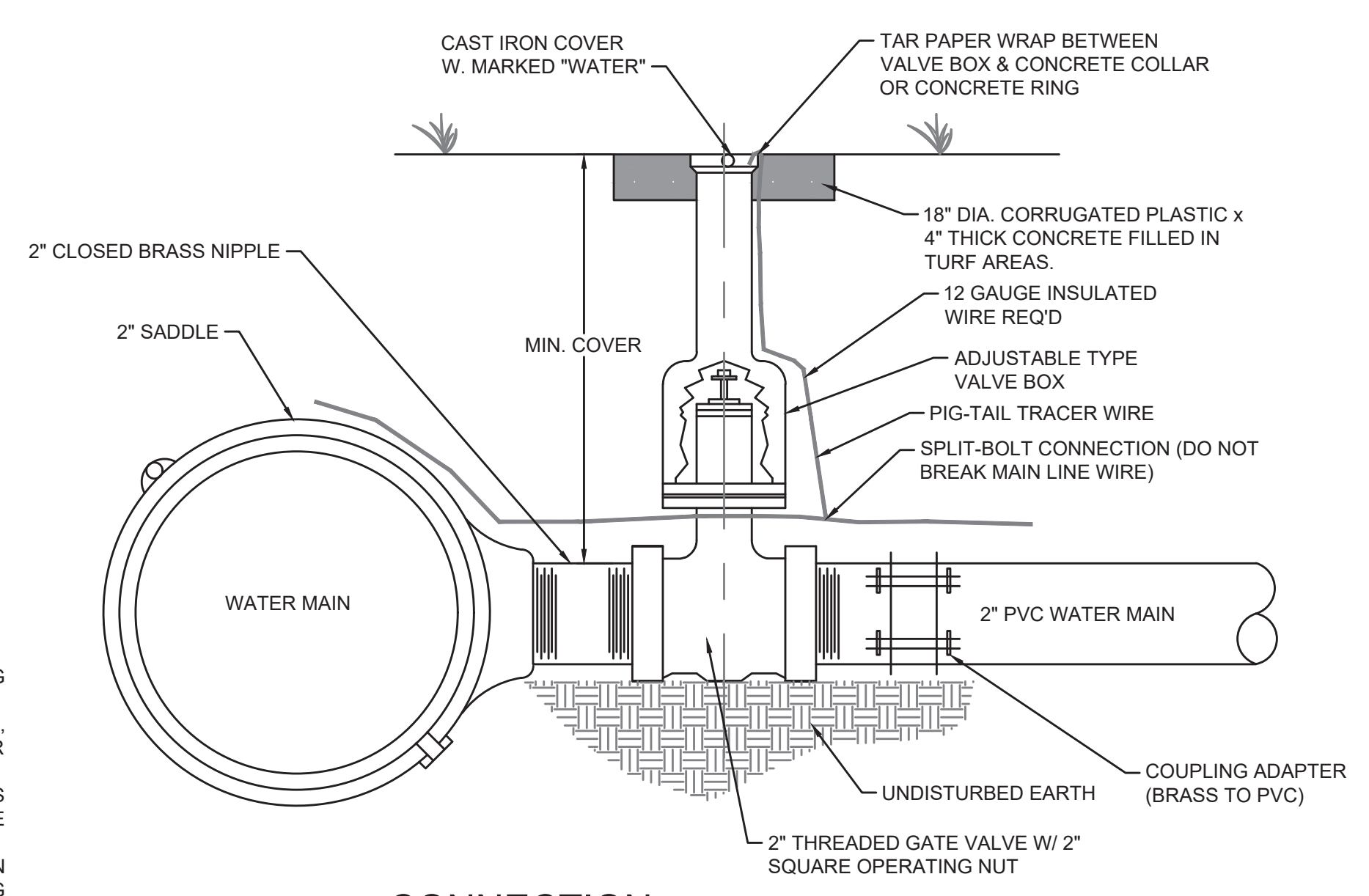
- METER MATERIAL SCHEDULE**
- YOKE-SEE SPECIFICATIONS
  - METER BOX-SEE SPECIFICATIONS
  - COVER-SEE SPECIFICATIONS
  - METER-SEE SPECIFICATIONS
  - INDIVIDUAL PRESSURE REDUCING VALVE (IPRV)-SEE SPECIFICATIONS
  - CORPORATION STOP-SEE SPECIFICATION
  - SERVICE SADDLE-SEE SPECIFICATION
- NOTE:**
- CONTRACTOR IS RESPONSIBLE FOR ALL PLUMBING PERMITS & ASSOCIATED COSTS.
  - SEE SPECIFICATIONS REGARDING SPECIFIC MAKE, MODEL, TYPE & STYLE OF FITTINGS, METER, METER BOX, COPPER SETTERS, IPRVs, BOX LID, ETC.
  - INDIVIDUAL PRESSURE REDUCING VALVES REQUIRED ON ALL METERS WHERE PRESSURE EXCEEDS 90 PSI.
  - TRACER WIRE TO BE CONNECTED TO WATER MAIN TRACER WIRE AND RAN ON NEW SERVICE TUBING AND TERMINATING IN THE METER BOX.



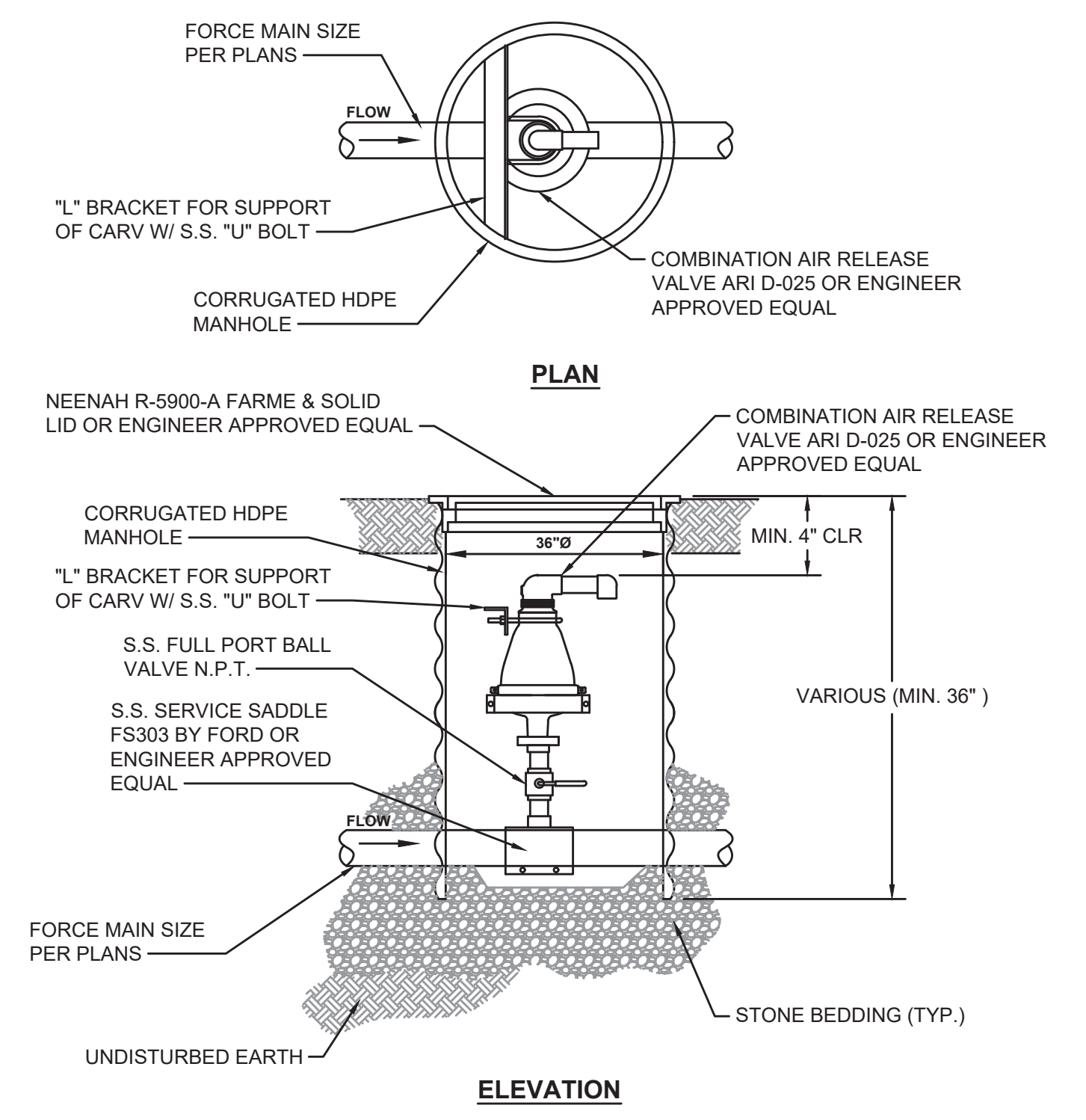
**METER ASSEMBLY - DETAIL**  
 NOT TO SCALE



**AIR RELEASE VALVE ASSEMBLY WATERLINE ONLY - DETAIL**  
 NOT TO SCALE

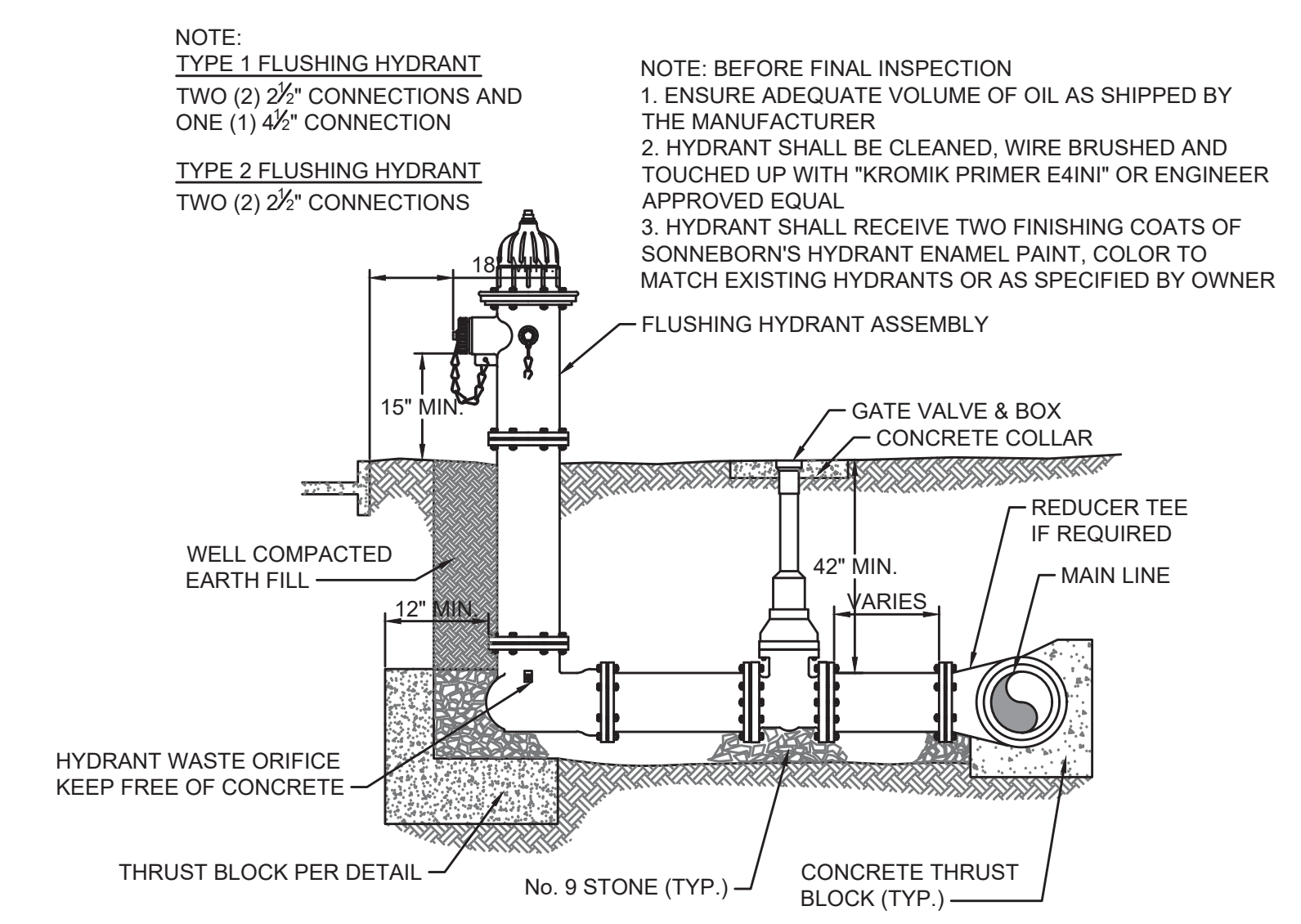


**CONNECTION FOR 2" WATER MAINS**  
 NOT TO SCALE

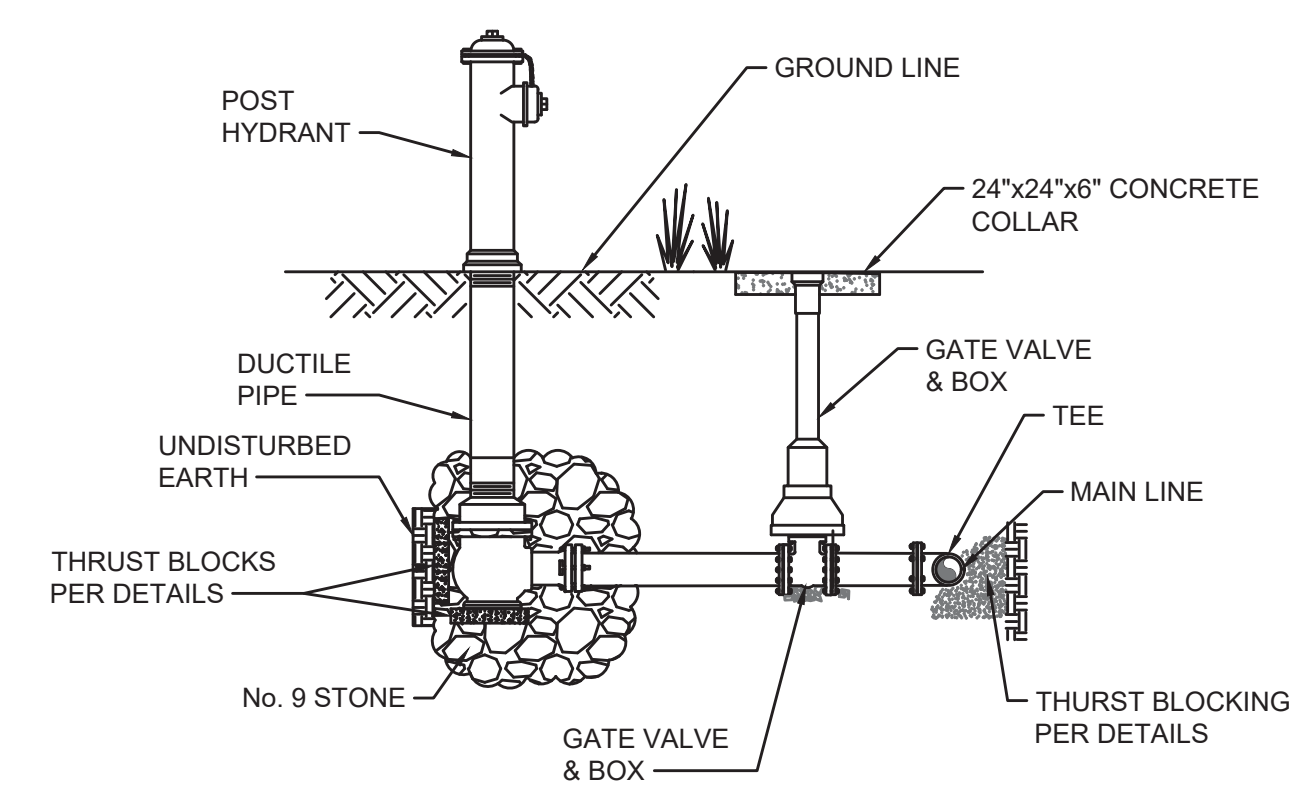


**COMBINATION AIR RELEASE VALVE ASSEMBLY FORCE MAIN ONLY - DETAIL**  
 NOT TO SCALE

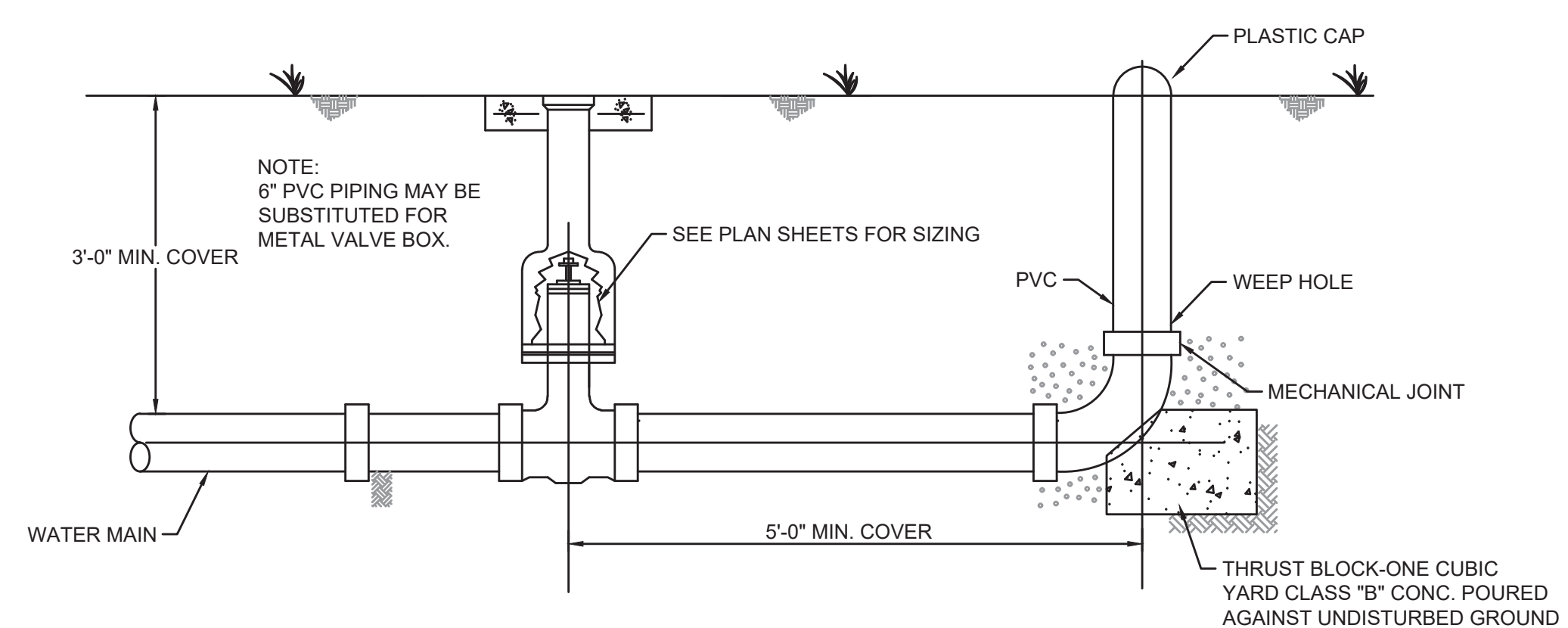
SANITARY SEWER AIR & VACUUM RELEASE VALVES SHALL BE A.R.I. MODEL D-025 OR ENGINEER APPROVED EQUAL W/2" INLET AND OUTLET. ALL VALVES SHALL BE PROVIDED W/ BACKFLUSHING ATTACHMENTS.



**FLUSHING HYDRANT ASSEMBLY TYPE 1 & 2 - DETAIL**  
 NOT TO SCALE



**FLUSHING HYDRANT ASSEMBLY, TYPE 3 - DETAIL**  
 NOT TO SCALE



**E.O.L. 2", 3", OR 4" UNDERGROUND BLOWOFF ASSEMBLY**  
 NOT TO SCALE

NO.	DATE	REVISIONS	BY

PHASE 12 WATER SYSTEM IMPROVEMENTS  
 CONTRACT 2  
 STANDARD DETAILS - WATER LINES

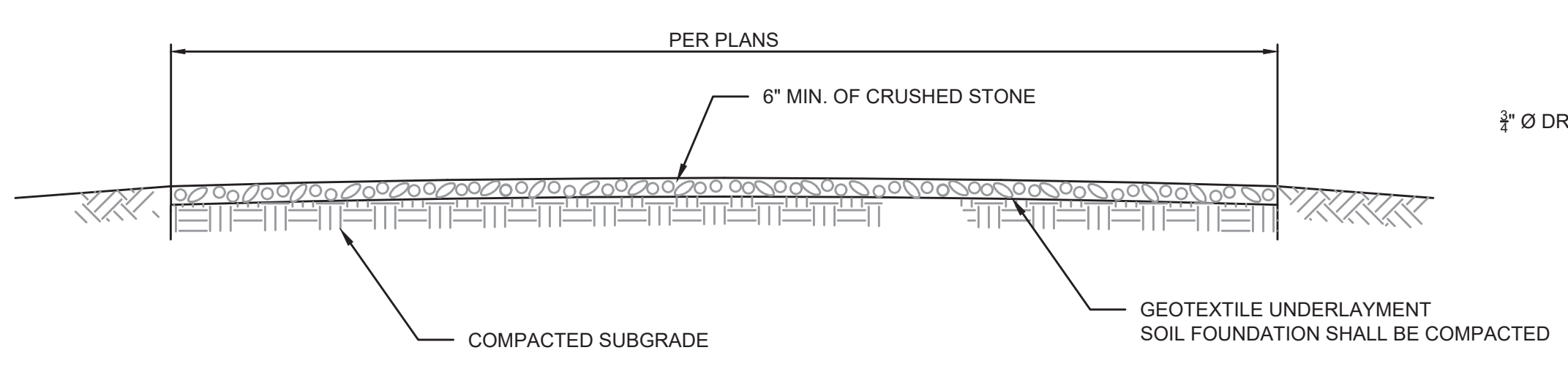
**BLUEGRASS ENGINEERING PLLC**  
 222 East Main Street, Ste. 1 • Georgetown, KY 40324

PROJECT #:	20002
DATE:	AUGUST 2022
PROJECT MGR:	LRS
DRAWN BY:	WCM
CHECKED BY:	MRC

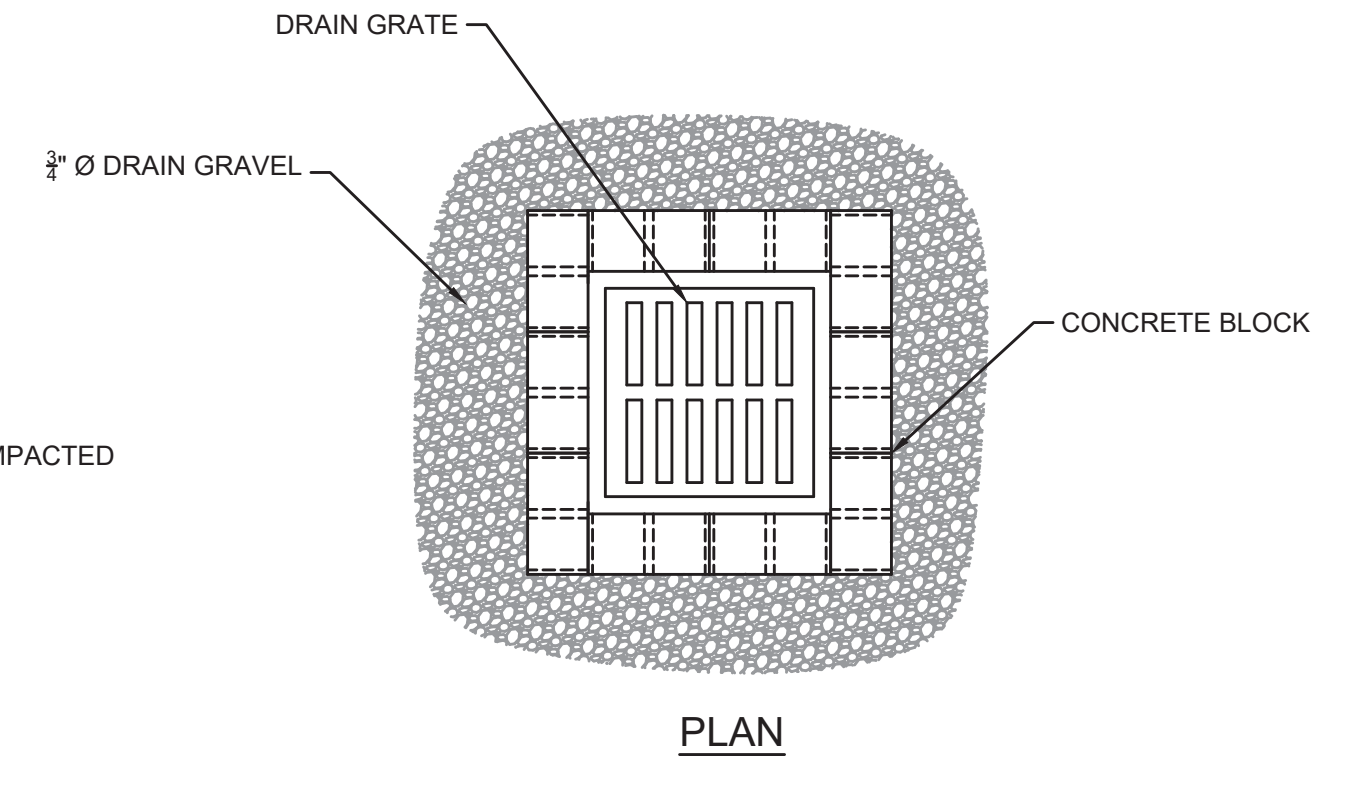




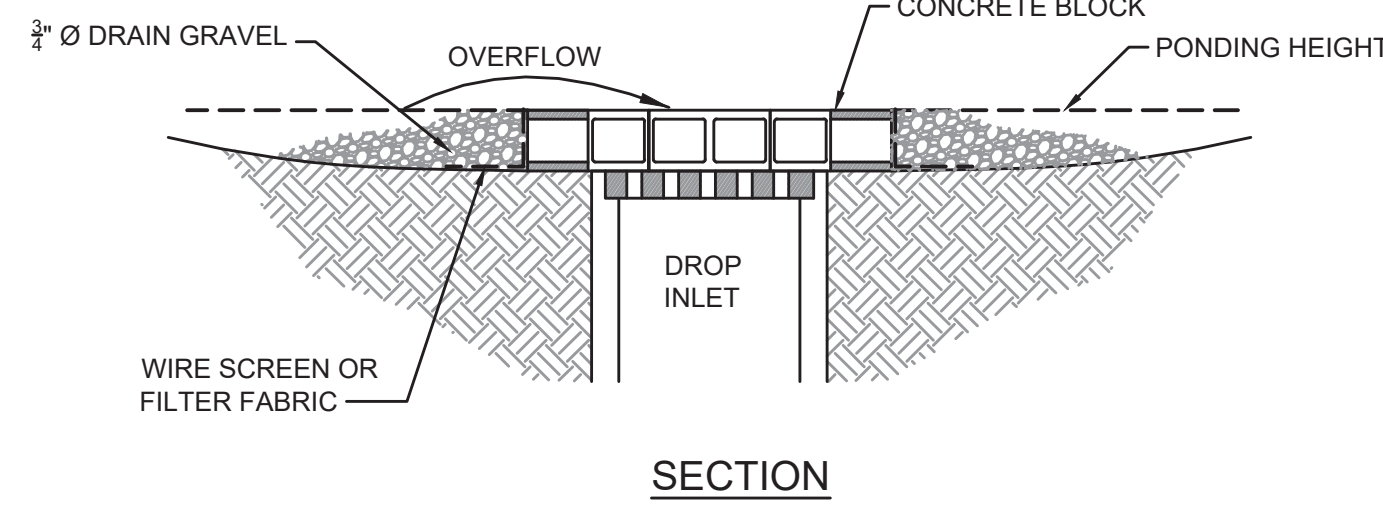
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**STABILIZED CONSTRUCTION ENTRANCE - SECTION**  
NOT TO SCALE



**PLAN**



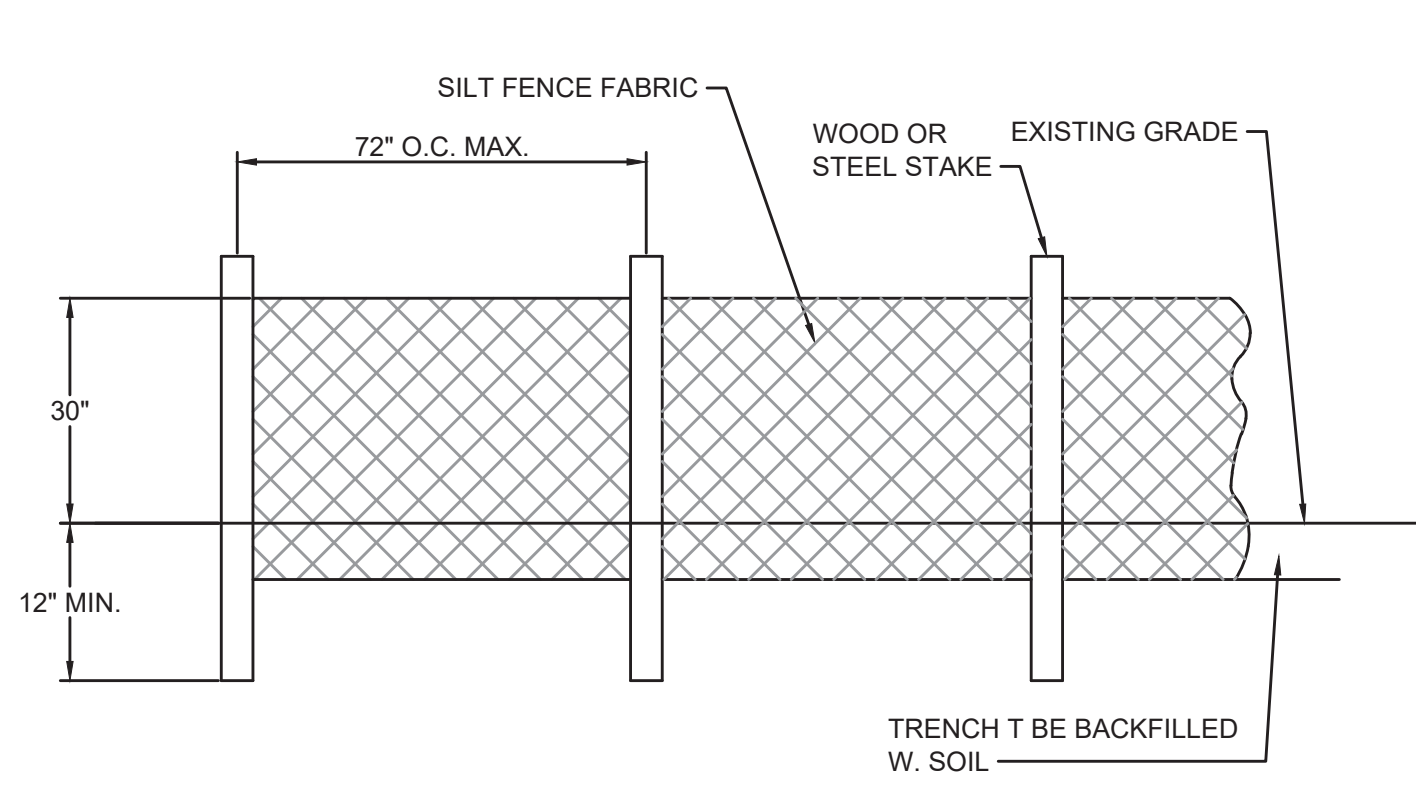
**SECTION**

**NOTES:**

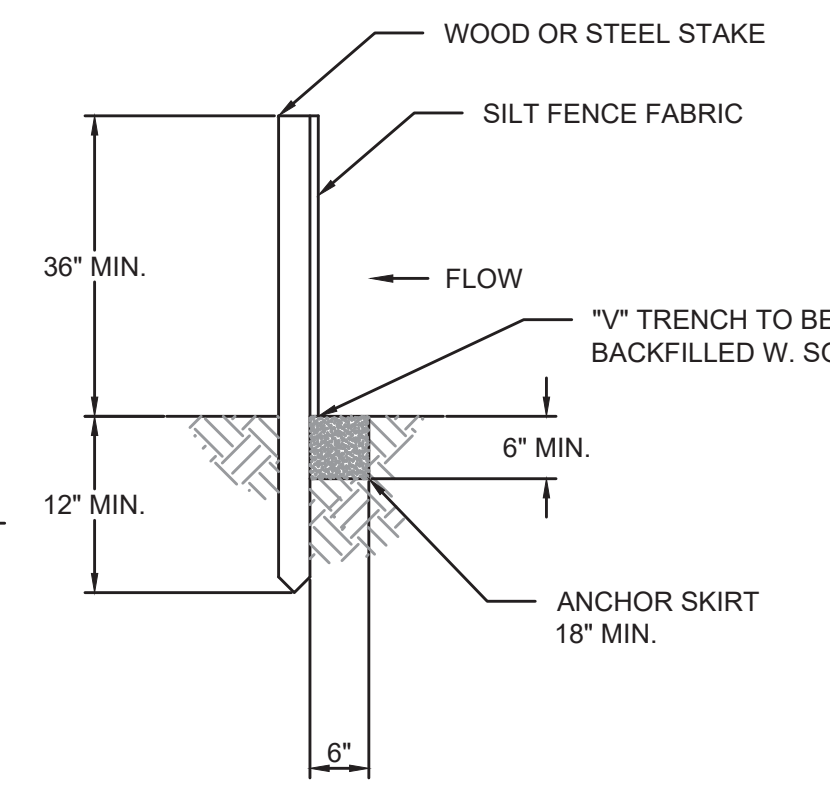
1. DROP INLET PROTECTION ARE TO BE USED FOR NEARLY LEVEL DRAINAGE AREAS.
2. EXCAVATE A BASIN OF SUFFICIENT SIZE ADJACENT TO THE DROP INLET.
3. THE TOP OF THE STRUCTURE (PONDING HEIGHT) MUST BE BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM BYPASSING THE INLET. A TEMPORARY DIKE MAY BE NECESSARY ON THE DOWNSLOPE SIDE OF THE STRUCTURE.

**DROP INLET PROTECTION - DETAIL**

NOT TO SCALE



**ELEVATION VIEW**



**SECTION VIEW**

**NOTES:**

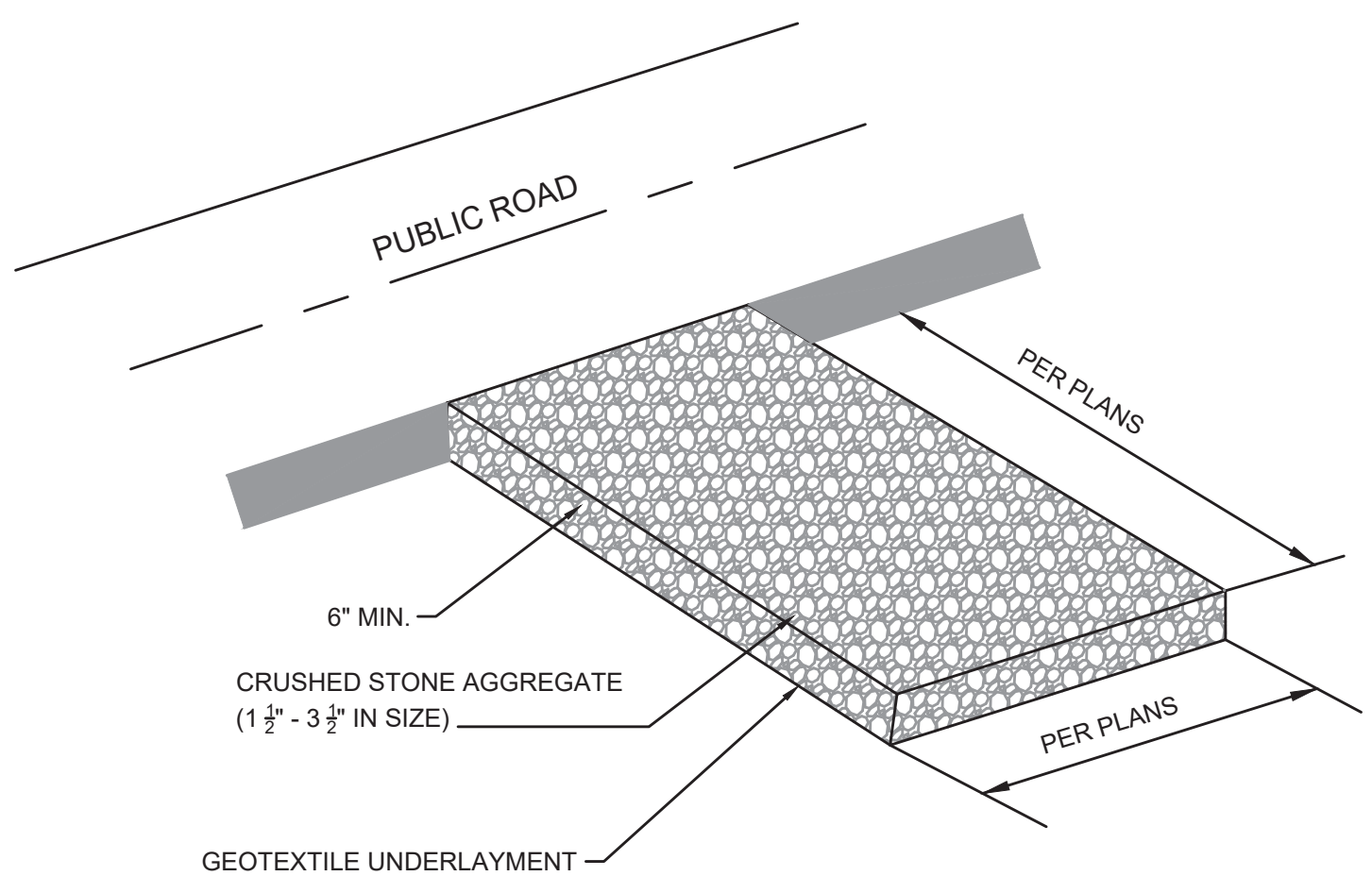
1. SILT FENCE FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL AND CUT TO THE LENGTH OF THE OF THE BARRIER. WHEN JOINTS CANNOT BE AVOID, SILT FENCE FABRIC SHALL BE SPLICED TOGETHER ONLY AT A POST WITH 3 FOOT MIN. OVERLAP, AND SECURELY SEALED.
2. POSTED SHALL BE AT LEAST 5 FEET IN LENGTH.
3. STEEL POSTS SHALL HAVE PROJECTIONS FOR FASTENING WIRE AND FABRIC.
4. WOOD POSTS SHALL BE 2 INCHES BY 2 INCHES OR EQUIVALENT. STEEL POSTS SHALL BE 1/33 LBS PER LINEAR FOOT.
5. IF REQUIRED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH IN LENGTH, WIRE TIES, OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE
6. TURN SILT FENCE UP SLOPE AT ENDS.

**SILT FENCE - DETAIL**

NOT TO SCALE

**NOTES:**

1. A STABILIZED ENTRANCE PAD OF CRUSHED STONE SHALL BE LOCATED WHERE TRAFFIC WILL ENTER OR LEAVE THE CONSTRUCTION SITE ONTO A PUBLIC STREET.
2. GEOTEXTILE (KYTC TYPE III) SHALL BE USED AS A BASE FOR THE CONSTRUCTION ENTRANCE.
3. TREES, STUMPS, ROOTS, BRUSH, WEEDS, AND OTHER OBJECTIONABLE MATERIALS SHALL BE REMOVED FROM THE WORK AREA.
4. UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE ROADBED AND PARKING AREAS.
5. GRADING, SUBGRADE PREPARATION, AND COMPACTION SHALL BE DONE AS NEEDED. FILL MATERIAL SHALL BE DEPOSITED IN LAYERS NOT TO EXCEED 9 INCHES AND COMPACTION WITH THE CONTROLLED MOVEMENT OF COMPACTION AND EARTH MOVING EQUIPMENT.
6. THE ROADBED SHALL BE GRADED TO THE ELEVATION AS SHOWN. SUBGRADE PREPARATION AND PLACEMENT OF THE SURFACE COURSE SHALL BE IN ACCORDANCE WITH SPECIFICATIONS.
7. ALL CUT AND FILLS SHALL BE 2:1 OR FLATTER TO THE EXTENT POSSIBLE.
8. WATER BREAKS OR BARS MAY BE USED TO CONTROL SURFACE RUNOFF.



**STABILIZED CONSTRUCTION ENTRANCE - DETAIL**

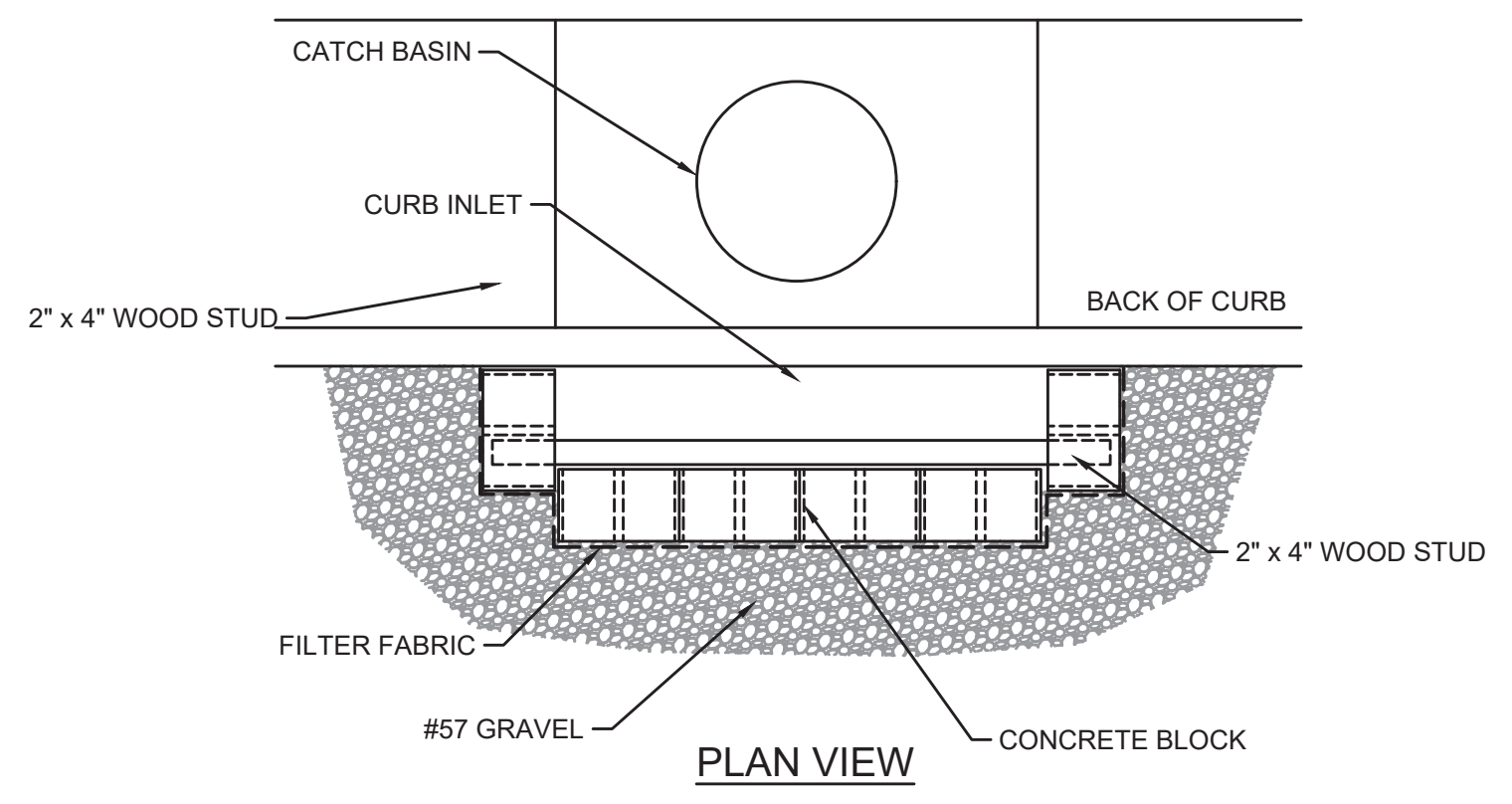
NOT TO SCALE

**EROSION CONTROL NOTES:**

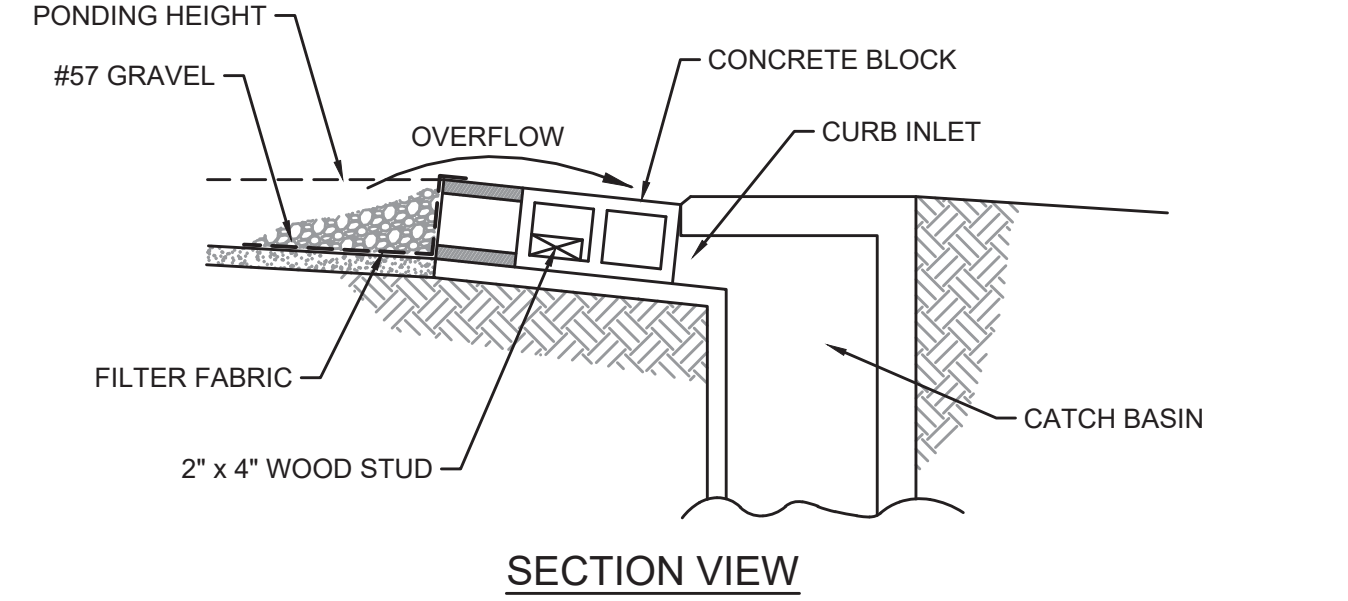
1. A KPDES STORMWATER PERMIT IS REQUIRED. COVERAGE STARTS WHEN THE KY DIVISION OF WATER ACKNOWLEDGES RECEIPT OF A NOTICE OF INTENT FOR COVERAGE.
2. FINAL STABILIZATION SHALL BEGIN WITHIN 14 DAYS ON AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE PERMANENTLY CEASED OR HAVE BEEN SUSPENDED FOR MORE THAN 180 DAYS. WHEN SNOW COVER CAUSES DELAYS, STABILIZATION SHALL BEGIN AS SOON AS POSSIBLE. STABILIZATION PRACTICES INCLUDE SEEDING, MULCHING, PLACING SOD, PLANTING TREES OR SHRUBS, AND USING GEOTEXTILE FABRICS AND OTHER APPROPRIATE MEASURES. SEEDING RATES, DATES, AND MATERIALS MAY BE OBTAINED FROM THE LOCAL NATURAL RESOURCES CONSERVATION SERVICE FIELD OFFICE.
3. FOR ALL CRITICAL AREAS (WITHIN 25' OF A STREAM), SOIL STABILIZATION TECHNIQUES SHALL BE IMPLEMENTED WITHIN 24 HOURS OR AS SOON AS PRACTICAL AFTER COMPLETION OF GRADING OR DISTURBANCE. TEMPORARY STABILIZATION PRACTICES SHALL BE INITIATED WITHIN 14 DAYS OF CESSATION OF CONSTRUCTION ACTIVITIES.
4. A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE DEVELOPED AND IMPLEMENTED AS OUTLINED IN THE KPDES STORMWATER PERMIT KYR 10.
5. SEDIMENT BASINS (DEBRIS BASINS, DESILTING BASINS, OR SEDIMENT TRAPS) SHALL BE PROPERLY DESIGNED.
6. SEDIMENT BASINS (DEBRIS BASINS, DESILTING BASINS, OR SEDIMENT TRAPS) SHALL BE INSTALLED DURING THE INITIAL GRADING AT LOCATIONS THAT WILL PROVIDE THE BEST PROTECTION FROM OFF-SITE DAMAGES.
7. ALL SLOPES EXCEEDING 3:1 SHALL HAVE EXTRA SLOPE PROTECTION SUCH AS NETTING.
8. INLET PROTECTION IS REQUIRED TO MINIMIZE DISCHARGE OF SEDIMENT LADEN WATER.
9. SITE PERIMETER CONTROLS ARE REQUIRED AND SHALL BE INSTALLED TO PREVENT THE DEPOSIT OF SOIL AND DEBRIS FROM GRADED SURFACES ONTO PUBLIC STREETS, INTO DRAINAGE CHANNELS OR SEWERS, OR ONTO ADJOINING LAND.
10. EROSION CONTROL MEASURES SHOWN ARE THE MINIMUM REQUIRED, CONTRACTOR SHALL PROVIDE ADDITIONAL CONTROL AND REVISE THE CONTROLS AS NEEDED.

**INSPECTIONS AND MAINTENANCE**

1. ALL EROSION CONTROL MEASURES, DISCHARGE LOCATIONS, VEHICLE EXITS, DISTURBED AREAS OF THE SITE, AND MATERIALS STORAGE AREAS SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES OR GREATER. EACH INSPECTION MUST BE DOCUMENTED IN ACCORDANCE WITH THE KPDES GENERAL PERMIT FOR STORMWATER POINT SOURCE DISCHARGES FROM CONSTRUCTION ACTIVITIES (KYR10).
2. SEDIMENT ACCUMULATED AT THE SILT FENCES, INLET PROTECTION AREAS, AND OTHER SILT CHECK DEVICES SHOULD BE REMOVED NO LATER THAN WHEN IT REACHES 1/3 HEIGHT OF THE FENCE OR 9 INCHES MAXIMUM.
3. SEDIMENT MUST BE REMOVED FROM ANY SEDIMENT BASINS WHEN THE NO MORE THAN 1/3 VOLUME HAS BEEN FILLED WITH COLLECTED SEDIMENT.
4. ALL REQUIRED REPAIRS ARE TO BE MADE IMMEDIATELY.
5. REMOVED SEDIMENT MUST BE SPREAD AND VEGETATED OR OTHERWISE STABILIZED IN A MANNER THAT DOES NOT RESULT IN MUDDY RUNOFF TO NEARBY DITCHES AND WATERBODIES.
6. INSPECT THE CONSTRUCTION ENTRANCE DAILY TO ENSURE NO TRACKING OR DIRT ONTO LOCAL ROADWAYS. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADS MUST BE REMOVED IMMEDIATELY. SEE NOTE 3 FOR HANDLING OF REMOVED SEDIMENT.
7. MAINTAIN THE ENTRANCE AS NECESSARY TO PREVENT TRACKING OF DIRT.



**PLAN VIEW**



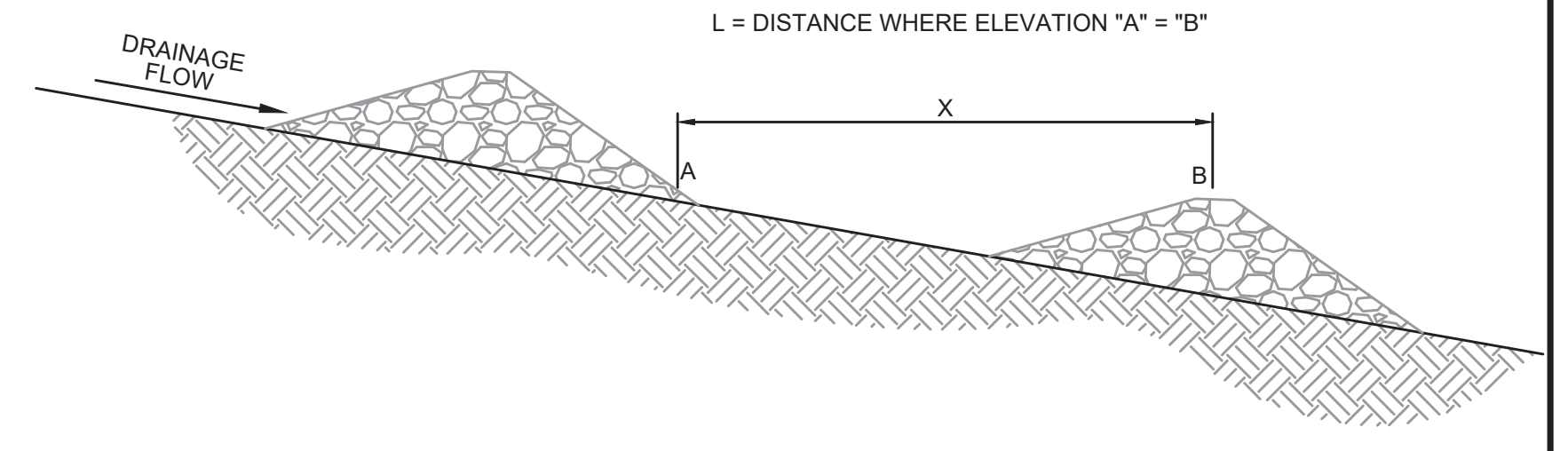
**SECTION VIEW**

**NOTES:**

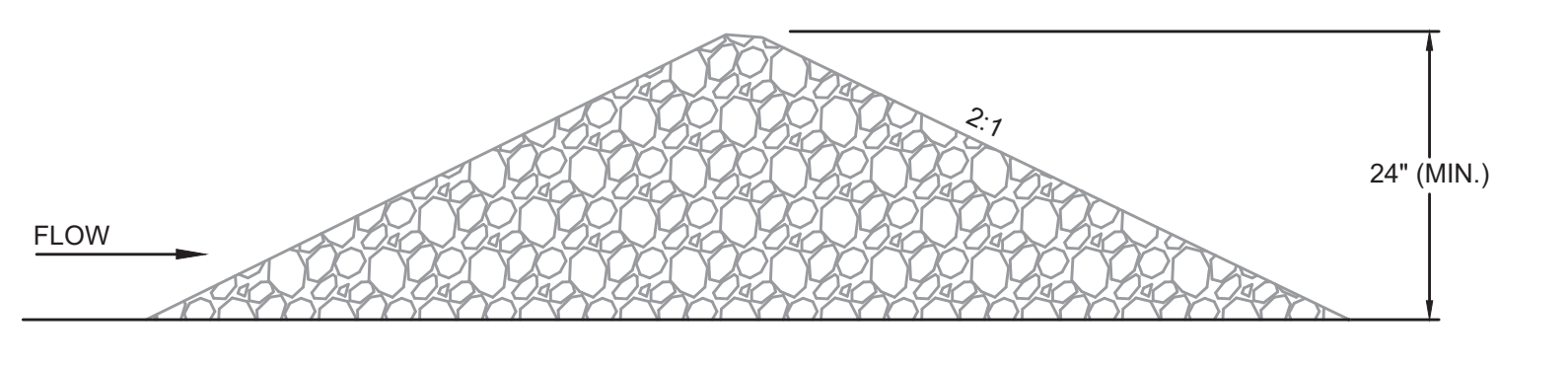
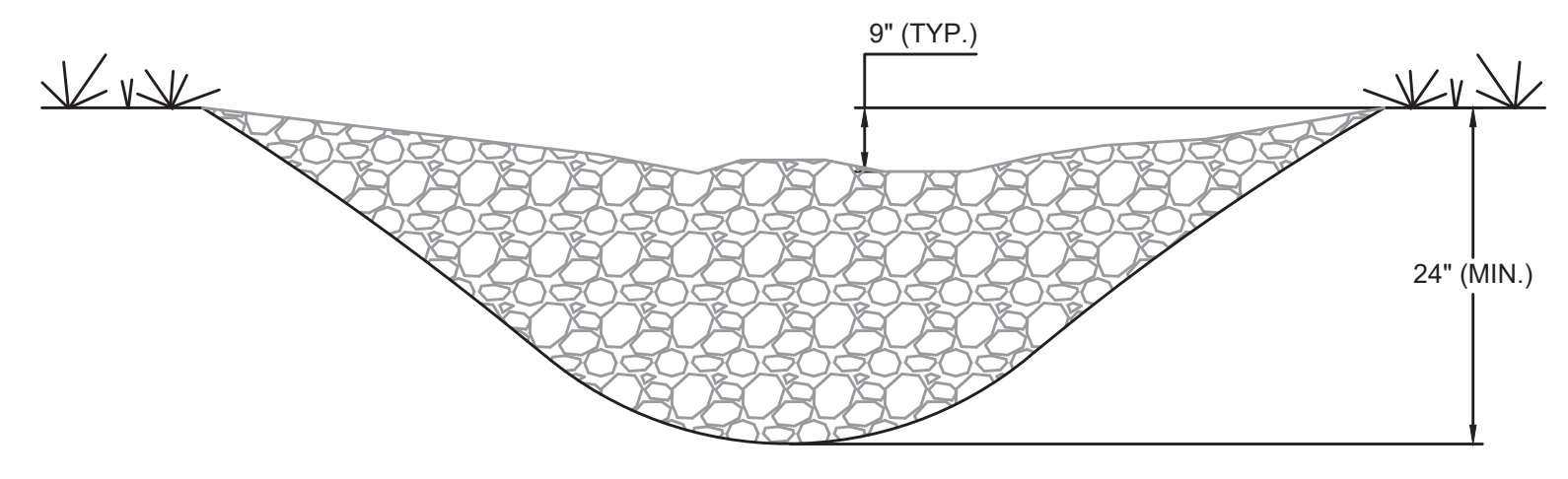
1. USE BLOCK AND GRAVEL TYPE SEDIMENT BARRIER WHEN CURB INLET IS LOCATED IN GENTLY SLOPING STREET SEGMENT WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
2. BARRIER SHALL ALLOW FOR OVERFLOW FROM SEVERE STORM EVENT.
3. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT. SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.

**CURB INLET SEDIMENT BARRIER - DETAIL**

NOT TO SCALE



**SECTION**



**NOTES:**

1. ROCK CHECK DAMS SHOULD BE CONSTRUCTED OF GRADED 5 TO 10 INCH STONE. MECHANICAL OR HAND PLACEMENTS SHALL BE REQUIRED TO ENSURE COMPLETE COVERAGE OF THE ENTIRE WIDTH OF DITCH OR SWALE AND THAT THE CENTER OF THE DAM IS LOWER THAN THE EDGES.
2. INSPECT BEHIND RIPRAP CHECKDAM DAILY AND CLEAN WHEN COLLECTED DEBRIS EXCEEDS HALF OF ITS DEPTH.

**ROCK CHECK DAM - DETAIL**

NOT TO SCALE

NO.	DATE	REVISIONS	BY

PHASE 12 WATER SYSTEM IMPROVEMENTS  
CONTRACT 2  
STANDARD DETAILS - EROSION  
CONTROLS

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

PROJECT #:	20002
DATE:	AUGUST 2022
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DRAWN BY:	WCM
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PROFESSIONAL ENGINEER  
MATTHEW RAY B. RAY  
CURTIS 25716

BID SET