

2022 WATER SYSTEM IMPROVEMENTS: CONTRACT 1 - WATER LINE REPLACEMENTS BRONSTON WATER ASSOCIATION PULASKI COUNTY, KENTUCKY

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BRONSTON WATER ASSOCIATION

ERIC KEITH, PRESIDENT
CLINT KEITH JAMIE DAVIS
MATTHEW TUCKER ALVIN MARROW

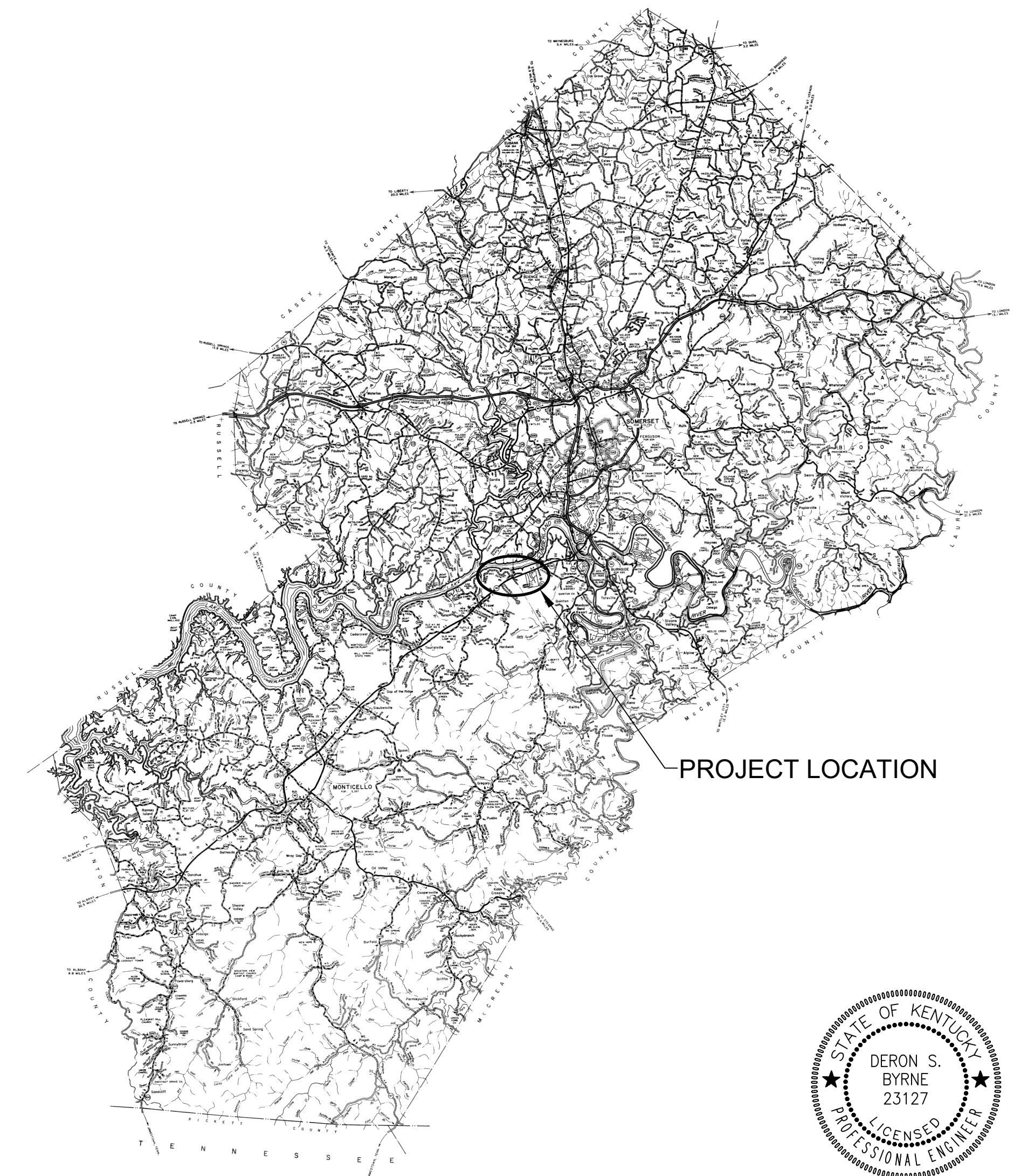
SUPERINTENDENT - J.C. NEW

JULY 2022

M
Monarch Engineering, Inc.

556 CARLTON DRIVE
LAWRENCEBURG, KY 40342

LOCATION MAP



GENERAL NOTES TO CONTRACTOR

- BEFORE CONSTRUCTION BEGINS NEAR OR THROUGH EXISTING UTILITIES (i.e. GAS CO., TELEPHONE CO., CABLE CO., ETC.) EACH UTILITY COMPANY SHALL BE NOTIFIED. A REQUEST FOR THE EXACT LOCATION OF THE UTILITY SHALL BE MADE, AND PERMISSION TO PROCEED WITH CONSTRUCTION OBTAINED.
- BEFORE CONSTRUCTION BEGINS THROUGH ANY PROPERTY, THE CONTRACTOR SHALL MAKE HIMSELF AWARE OF THE EXACT LOCATION OF CONSTRUCTION THROUGH THE PROPERTY AND THE BOUNDS OF THE PERMANENT AND TEMPORARY CONSTRUCTION EASEMENTS.
- THE CONTRACTOR SHALL HAVE ON HAND AT THE JOB SITE 22, 45, AND 90 DEGREE BENDS TO ALLOW FOR THEIR USE WHERE BRONSTON WATER ASSOCIATION REQUESTS INSTALLATION AS NECESSARY.
- PIPE JOINT DEFLECTION IS NOT TO EXCEED MANUFACTURER'S ALLOWABLE LIMITS.
- CONNECTING NEW LINES TO EXISTING LINES OR TO WORK IN THEIR CONTRACTS IS SUBSIDIARY TO THE CONTRACT. IT INCLUDES FITTINGS, SLEEVES, ETC., BUT DOES NOT INCLUDE GATE VALVES, WHICH ARE EXTRA PAY ITEM.
- THE CONTRACTOR SHALL FREE BORE ALL ASPHALT AND CONCRETE RESIDENTIAL DRIVEWAYS IN DIRT AND OPEN CUT IN ROCK AS DIRECTED BY THE BRONSTON WATER ASSOCIATION AND ENGINEER. THE CONTRACTOR SHALL EXCAVATE FROM EITHER SIDE OF ALL FENCES TO AVOID CUTTING. FENCE CUTTING AND REPAIR SHALL BE LIMITED TO UNIQUE CONDITIONS WHERE APPROVED BY BRONSTON WATER ASSOCIATION.
- ALL STREAM AND RIVER CROSSINGS GREATER THAN 15 FEET WIDE SHALL HAVE GATE VALVES INSTALLED ON EACH SIDE OF THE CROSSING. THE VALVE ON THE SOURCE SIDE SHALL HAVE A BYPASS SERVICE METER INSTALLED FOR LEAK DETECTION.
- ALL WATER LINES WITHIN 200 FEET RADIUS OF UNDERGROUND STORAGE TANKS (KRS-224.6-100), PETROLEUM STORAGE TANKS (KRS-224.60-115) AND ASSOCIATED PUMPS AND LINES SHALL BE DUCTILE IRON PIPE WITH PETROLEUM RESISTANT JOINTS AND ALL SERVICE LINE SHALL BE COPPER.
- WATER MAINS CROSSING SEWERS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER. THIS SHALL BE THE CASE WHERE THE WATER MAIN IS ABOVE OR BELOW THE SEWER AT CROSSINGS, ONE FULL LENGTH OF THE WATER PIPE SHALL BE LOCATED SO BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. SPECIAL STRUCTURAL SUPPORT FOR THE WATER AND SEWER PIPES MAY BE REQUIRED.
- WATER MAINS INSTALLED PARALLEL TO SEWERS SHALL BE LAID TO PROVIDE A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER MAIN.
- THE CONTRACTOR SHALL NOT BE ALLOWED TO MAINTAIN PERSONNEL RESIDENCY FOR ANY EMPLOYEE ON THE CONSTRUCTION SITE.
- WHEN WORKING ALONG THE COMMONWEALTH OF KENTUCKY RIGHT OF WAY, THE CONTRACTOR SHALL BE ADVISED THAT THE WATER LINES SHALL NOT BE PLACED IN FILL AREAS.
- WHEN PERFORMING WORK ALONG OR ACROSS ANY PUBLIC ROADWAY, THE CONTRACTOR SHALL POST WARNING SIGNS PAINTED ORANGE AND THEY SHALL BE FOUR (4) FEET BY FOUR (4) FEET MOUNTED ON POSTS IN ACCORDANCE WITH THE KENTUCKY TRANSPORTATION DEPARTMENT'S MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. THE SIGNS SHALL BE AS FOLLOWS:
 - 1) CAUTION PIPELINE CONSTRUCTION 1500 FEET
 - 2) CAUTION PIPELINE CONSTRUCTION 1000 FEET
 - 3) CAUTION PIPELINE CONSTRUCTION 500 FEET
- THE CONTRACTOR SHALL MAINTAIN TWO (2) FLAG MEN AT ALL TIMES WHERE MACHINERY IS IN OPERATION WHEN WORKING THE FLOW OF TRAFFIC WILL BE DISTURBED. THERE IS NO EXCEPTION TO THIS REQUIREMENT. THE USE OF RADIOS WILL BE REQUIRED WHEN VISUAL CONTACT BETWEEN THE FLAG MEN DOES NOT EXIST.
- ALL SIGNS, BARRICADES, LIGHTS AND TRAFFIC CONTROL SHALL BE INSTALLED IN ACCORDANCE WITH THE KENTUCKY TRANSPORTATION DEPARTMENT'S MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- AT THE COMPLETION OF EACH WORK DAY, THE CONTRACTOR SHALL BACKFILL ALL OPEN TRENCHES AND INSTALL ALL TRAFFIC CONTROL SIGNS, BARRICADES AND LIGHTS IN ACCORDANCE WITH THE KENTUCKY TRANSPORTATION DEPARTMENT'S MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ENTIRE ROADWAY FREE AND CLEAR AT THE END OF EACH WORKING DAY. NO EQUIPMENT SHALL BE LEFT ON OR PARKED ALONG THE ROAD RIGHT OF WAY.
- ALL NECESSARY STEPS SHALL BE TAKEN TO PREVENT EROSION OR SILTATION OF THE PUBLIC RIGHT OF WAY, ADJOINING PROPERTY AND WATERWAYS.

WATER LINE GENERAL NOTES

1. ALL WATER LINES SHALL BE CONFORMING TO ASTM SPECIFICATIONS D-2241 AND D-3139, FOR MATERIAL. ALL JOINTS SHALL BE SLIP-TYPE WITH RUBBER GASKETS CONFORMING TO ASTM-1869.
2. FITTINGS SHALL BE DUCTILE IRON CLASS 250 IN ACCORDANCE WITH AWWA C111-71 (ANSI A21.10).
3. ALL VALVES SHALL CONFORM TO AWWA C500.
4. CONSTRUCTION PRACTICES AND PROCEDURES SHALL CONFORM TO CURRENT AWWA STANDARDS AND BE APPROVED BY THE BRONSTON WATER ASSOCIATION.
5. AFTER INSTALLATION, WATER LINES SHALL BE DISINFECTED WITH A CHLORINE SOLUTION IN SUCH AMOUNTS AS TO PRODUCE A CONCENTRATION OF AT LEAST FIFTY (50) PPM AND A RESIDUAL OF AT LEAST TWENTY-FIVE (25) PPM AT THE END OF THE 24 HOURS AND FOLLOWED BY THROUGH FLUSHING.
6. MINIMUM COVER OF WATER LINES SHALL BE 30 INCHES. WATER LINE WITHIN COMMONWEALTH OF KENTUCKY RIGHT-OF-WAYS SHALL HAVE A MINIMUM COVER OF 42-INCHES.
7. CONTRACTOR SHALL FULLY COMPLY WITH ALL LOCAL, STATE AND FEDERAL SAFETY AND ENVIRONMENTAL REGULATIONS GOVERNING UTILITY CONSTRUCTION.
8. ALL WATER LINE CROSSING PAVED SURFACE SHALL BE BACKFILLED FULL DEPTH WITH COMPACTED CRUSHED STONE.
9. EXISTING AND PROPOSED WATER MAIN LOCATIONS SHALL BE VERIFIED BY BRONSTON WATER ASSOCIATION PRIOR TO CONSTRUCTION.
10. ALL PIPE AND FITTINGS SHALL HAVE A MINIMUM OF 6-INCHES OF BEDDING OF DIRT UNDER AND ON BOTH SIDES OF PIPE UNLESS OTHERWISE SPECIFIED. ALL PIPE AND FITTING SHALL BE BACK-FILLED WITH DIRT UNLESS OTHERWISE SPECIFIED.
11. ALL FITTINGS: 90° BENDS, TEES, ETC., SHALL BE BLOCK WITH A MINIMUM OF 12-INCHES POURED CONCRETE AGAINST UNDISTURBED SOIL.
12. ALL GATE VALVES SHALL TURN RIGHT TO CLOSE AND TURN LEFT TO OPEN.
13. ALL VALVES SHALL BE C.I. VALVE BOXES EXTENDING 2-INCHES ABOVE SURFACE.
14. ALL FLUSH HYDRANTS SHALL BE STANDARD 2-WAY 5 1/4-INCHES BREAKAWAY TYPE WITH A MINIMUM 3 1/2-INCHES BURY AND TURN LEFT TO OPEN AND RIGHT TO CLOSE.
15. ALL PROPOSED WATER LINES SHALL HAVE A #12 COATED TRACER WIRE.
16. ALL FLUSH HYDRANTS, WATER VALVES AND FITTINGS SHALL HAVE RESTRAINER GLANDS (MEGALUGS®).
17. ALL WATER LINES SHALL BE PRESSURE TESTED TO 150 PSI FOR A MINIMUM OF FOUR (4) HOURS.
18. CONTRACTOR SHALL PROVIDE BACTERIAL SAMPLE RESULTS OF PROPOSED WATER LINES TO BRONSTON WATER ASSOCIATION.

OWNER

BRONSTON WATER ASSOCIATION
 2013 WEST HIGHWAY 90
 BRONSTON, KY 42518
 (606) 561-5209

LINE/CABLE LOCATION SERVICES



2022 WATER SYSTEM IMPROVEMENTS
 BRONSTON WATER ASSOCIATION
 PULASKI COUNTY, KENTUCKY

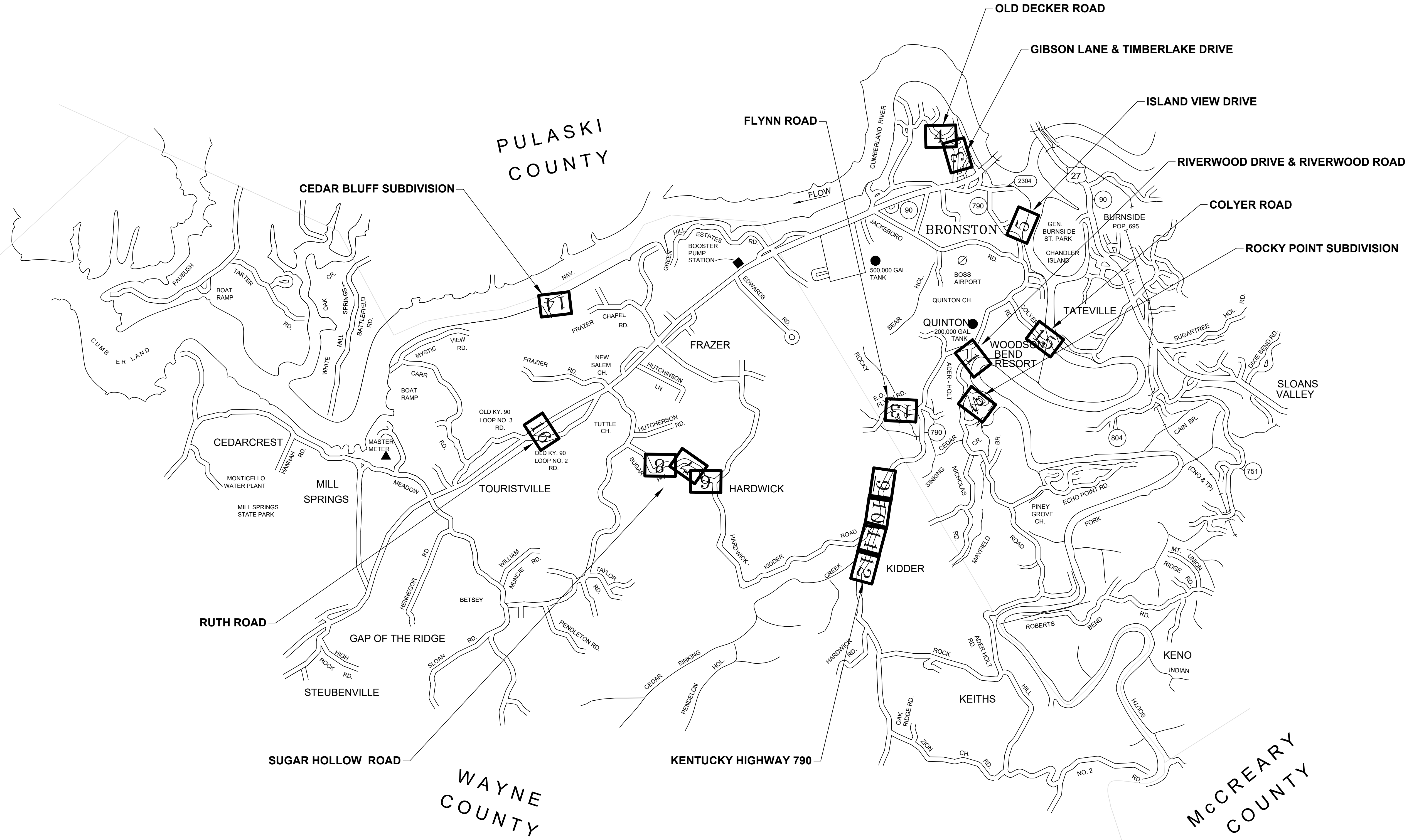
GENERAL NOTES

	Monarch Engineering, Inc. 556 CARLTON DRIVE LAWRENCEBURG, KY 40342		
	DRAWN BY: JRC	DATE: JULY 2022	REVISED
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	CHECKED BY: DMB	PROJECT: 2235	
			G-1



RUSSELL COUNTY

PULASKI COUNTY



2022 WATER SYSTEM IMPROVEMENTS
BRONSTON WATER ASSOCIATION
PULASKI COUNTY, KENTUCKY

LOCATION MAP



Monarch Engineering, Inc.
556 CARLTON DRIVE
LAWRENCEBURG, KY 40342

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CHECKED BY: DMB	PROJECT: 2235		



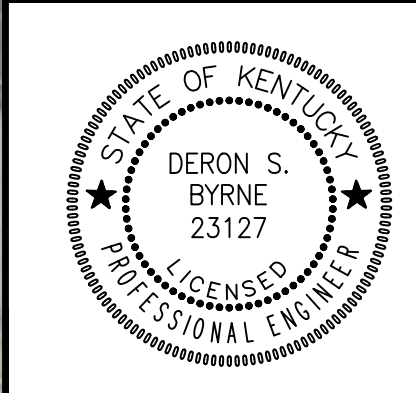
**2022 WATER SYSTEM IMPROVEMENTS & REPLACEMENTS
BRONSTON WATER ASSOCIATION
PULASKI & WAYNE COUNTIES, KENTUCKY**

RIVERWOOD DR & RIVERWOOD RD WATER LINE REPLACEMENTS

	Monarch Engineering, Inc. 556 CARLTON DRIVE LAWRENCEBURG, KY 40342		
	DRAWN BY: JRC	DATE: JULY 2022	REVISED
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	CHECKED BY: DSB	PROJECT: 2235	1



**2022 WATER SYSTEM IMPROVEMENTS & REPLACEMENTS
BRONSTON WATER ASSOCIATION
PULASKI & WAYNE COUNTIES, KENTUCKY
ROCKY POINT SUBDIVISION WATER LINE REPLACEMENT**



Monarch Engineering, Inc.
 556 CARLTON DRIVE
 LAWRENCEBURG, KY 40342

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CHECKED BY: DSB	PROJECT: 2235		

STA. 0+00
 CONNECT NEW 3-INCH WATER LINE TO EXISTING 3-INCH WATER LINE WITH DIRECT TIE-IN TO EXISTING 3-INCH GATE VALVE.
 LAT: 36° 56' 42.42" N
 LONG: 84° 37' 39.05" W

CUT & CAP EXISTING 3-INCH WATER LINE

STA. 0+00
 INSTALL 3-INCH GATE VALVE

STA. 5+50
 INSTALL 3-INCH BLOWOFF ASSEMBLY

STA. 4+80
 INSTALL 3-INCH BLOWOFF ASSEMBLY

STA. 4+00
 INSTALL 3-INCH BLOWOFF ASSEMBLY

STA. 0+00
 INSTALL 3-INCH GATE VALVE

INSTALL 20 LF OF BORE & CASE FOR 3-INCH WATER LINE

INSTALL 3-INCH PVC SDR 17 WATER LINE

INSTALL 3-INCH PVC SDR 17 WATER LINE

STA. 35+00
 INSTALL 3-INCH BLOWOFF ASSEMBLY

INSTALL 20 LF OF DRIVEWAY BORE & CASE FOR 3-INCH WATER LINE

INSTALL 30 LF OF DRIVEWAY BORE & CASE FOR 3-INCH WATER LINE

STA. 2+00
 INSTALL 3-INCH BLOWOFF ASSEMBLY

INSTALL 3-INCH PVC SDR 17 WATER LINE

INSTALL 3-INCH GATE VALVE (TYP.)

INSTALL 20 LF OF BORE & CASE FOR 3-INCH WATER LINE

INSTALL 70 LF OF OPEN CUT & PAVEMENT REPLACEMENT FOR 3-INCH WATER LINE

INSTALL 20 LF OF DRIVEWAY BORE & CASE FOR 3-INCH WATER LINE

INSTALL 30 LF OF BORE & CASE FOR 3-INCH WATER LINE

INSTALL 3-INCH PVC SDR 17 WATER LINE

RECONNECT EXISTING METER TO NEW WATER LINE WITH NEW 3/4-INCH HDPE SERVICE LINE AND FITTINGS. (TYP.)

INSTALL 30 LF OF BORE & CASE FOR 3-INCH WATER LINE

STA. 0+00
 INSTALL 3-INCH GATE VALVE

EXISTING 3-INCH WATER LINE TO BE ABANDONED

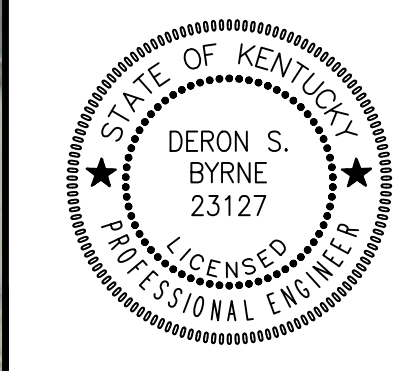
EXISTING 3-INCH WATER LINE TO BE ABANDONED

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EXISTING 3-INCH WATER LINE TO BE ABANDONED



Monarch Engineering, Inc.
 556 CARLTON DRIVE
 LAWRENCEBURG, KY 40342

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STA. 0+00
 CONNECT NEW 3-INCH WATER LINE TO
 EXISTING 3-INCH WATER LINE WITH
 3-INCHx3-INCH TAPPING SLEEVE AND VALVE.
 LAT. 38° 50' 24.00" N
 LONG. 84° 37' 44.94" W

INSTALL 20 LF OF
 DRIVEWAY BORE & CASE
 FOR 3-INCH WATER LINE

INSTALL 20 LF OF
 DRIVEWAY BORE & CASE
 FOR 3-INCH WATER LINE

RECONNECT 2-INCH
 METER TO NEW 3-INCH
 WATER LINE WITH NEW
 2-INCH HDPE SERVICE
 LINE AND FITTINGS

INSTALL 30 LF OF
 DRIVEWAY BORE & CASE
 FOR 3-INCH WATER LINE

INSTALL 40 LF OF
 BORE & CASE FOR
 3-INCH WATER LINE

INSTALL 3-INCH PVC SDR 17
 WATER LINE

SEE SHEET 4 FOR
 OLD DECKER ROAD

INSTALL 20 LF OF
 DRIVEWAY BORE & CASE
 FOR 3-INCH WATER LINE

CUT & CAP EXISTING
 3-INCH WATER LINE

EXISTING 1-INCH
 WATER LINE
 TO REMAIN

CONNECT EXISTING 1-INCH
 WATER LINE TO NEW 3-INCH
 WATER LINE WITH NEW
 1-INCH HDPE AND FITTINGS

RECONNECT EXISTING METER
 TO NEW WATER LINE WITH
 NEW 1/2-INCH HDPE SERVICE
 LINE AND FITTINGS (TYP.)

EXISTING 3-INCH WATER LINE
 TO BE ABANDONED

EXISTING 2-INCH WATER LINE
 TO BE ABANDONED

INSTALL NEW METER SETTING
 AND CONNECT TO CUSTOMER'S
 EXISTING SERVICE LINE

EXISTING METER
 TO BE ABANDONED

INSTALL 20 LF OF
 DRIVEWAY BORE & CASE
 FOR 3-INCH WATER LINE

INSTALL 20 LF OF
 DRIVEWAY BORE & CASE
 FOR 3-INCH WATER LINE

CUT & CAP EXISTING
 2-INCH WATER LINE

STA. 23+70
 CONNECT NEW 3-INCH WATER LINE TO
 EXISTING 3-INCH WATER LINE WITH
 3-INCHx3-INCH TAPPING SLEEVE AND VALVE.

2022 WATER SYSTEM IMPROVEMENTS & REPLACEMENTS
 BRONSTON WATER ASSOCIATION
 PULASKI & WAYNE COUNTIES, KENTUCKY
 GIBSON LANE & TIMBERLAKE DR. WATER LINE REPLACEMENT



M
 Monarch Engineering, Inc.
 556 CARLTON DRIVE
 LAWRENCEBURG, KY 40342

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CHECKED BY: DSB	PROJECT: 2235		



STA. 0+00
 CONNECT NEW 3-INCH WATER LINE TO
 EXISTING 6-INCH WATER LINE WITH
 6-INCHx3-INCH TAPPING SLEEVE AND VALVE.
 LAT: 38° 00' 47.69" N
 LONG: 84° 37' 59.86" W

CUT & CAP EXISTING
 2-INCH WATER LINE

INSTALL 20 LF OF DRIVEWAY
 BORE & CASE FOR 3-INCH
 WATER LINE (TYP.)

INSTALL 3-INCH PVC SDR 17
 WATER LINE

RECONNECT EXISTING METER
 TO NEW WATER LINE WITH
 NEW 3/4-INCH HDPE SERVICE
 LINE AND FITTINGS (TYP.)

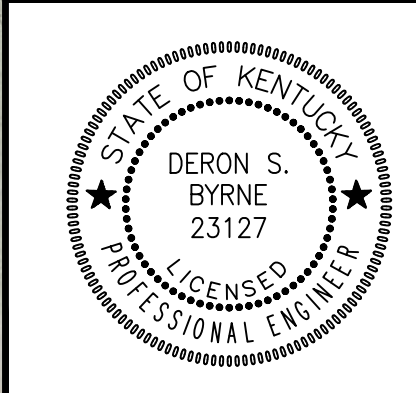
RECONNECT 2-INCH
 METER TO NEW 3-INCH
 WATER LINE WITH NEW
 2-INCH HDPE SERVICE
 LINE AND FITTINGS

INSTALL 40 LF OF BORE & CASE
 FOR 3-INCH WATER LINE

SEE SHEET 3 FOR
 GIBSON LANE &
 TIMBERLAKE DRIVE

STA. 16+80
 CONNECT NEW 3-INCH WATER LINE TO
 EXISTING 3-INCH WATER LINE WITH
 3-INCHx3-INCH TAPPING SLEEVE AND VALVE.

2022 WATER SYSTEM IMPROVEMENTS & REPLACEMENTS
 BRONSTON WATER ASSOCIATION
 PULASKI & WAYNE COUNTIES, KENTUCKY
 OLD DECKER ROAD WATER LINE REPLACEMENT



Monarch Engineering, Inc.
 556 CARLTON DRIVE
 LAWRENCEBURG, KY 40342

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STA. 0+00
 CONNECT NEW 6-INCH WATER LINE TO
 EXISTING 6-INCH WATER LINE WITH
 6-INCHx6-INCH TAPPING SLEEVE AND VALVE.
 LAT: 38° 58' 35.39" N
 LONG: 84° 36' 48.06" W

INSTALL 30 LF OF BORE & CASE
 FOR 6-INCH WATER LINE

CUT & CAP EXISTING
 6-INCH WATER LINE

INSTALL 20 LF OF
 DRIVEWAY BORE & CASE
 FOR 3-INCH WATER LINE

RECONNECT EXISTING METER
 TO NEW WATER LINE WITH
 NEW 3/4-INCH HDPE SERVICE
 LINE AND FITTINGS (TYP.)

CUT & CAP EXISTING
 6-INCH WATER LINE

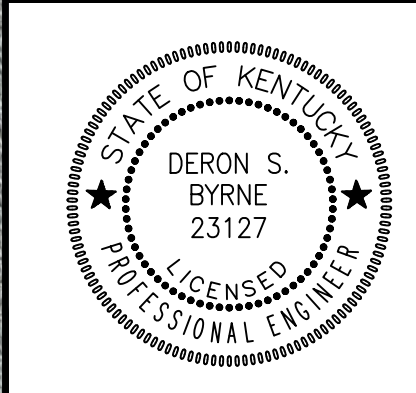
STA. 10+70
 CONNECT NEW 6-INCH WATER LINE TO
 EXISTING 4-INCH WATER LINE WITH
 6-INCHx6-INCH TAPPING SLEEVE AND VALVE.

INSTALL 30 LF OF BORE & CASE
 FOR 6-INCH WATER LINE

INSTALL 6-INCH PVC SDR 17
 WATER LINE

INSTALL 20 LF OF
 DRIVEWAY BORE & CASE
 FOR 3-INCH WATER LINE

2022 WATER SYSTEM IMPROVEMENTS & REPLACEMENTS
 BRONSTON WATER ASSOCIATION
 PULASKI & WAYNE COUNTIES, KENTUCKY
 ISLAND VIEW DRIVE WATER LINE REPLACEMENT



Monarch Engineering, Inc.
 556 CARLTON DRIVE
 LAWRENCEBURG, KY 40342

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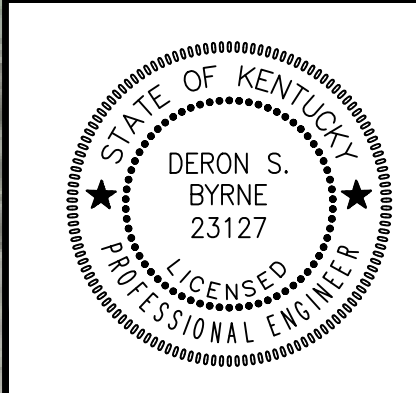


2022 WATER SYSTEM IMPROVEMENTS & REPLACEMENTS
BRONSTON WATER ASSOCIATION
PULASKI & WAYNE COUNTIES, KENTUCKY
SUGAR HOLLAR ROAD WATER LINE REPLACEMENT

	Monarch Engineering, Inc. 556 CARLTON DRIVE LAWRENCEBURG, KY 40342	
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	REVISED SHEET 6	



2022 WATER SYSTEM IMPROVEMENTS & REPLACEMENTS
 BRONSTON WATER ASSOCIATION
 PULASKI & WAYNE COUNTIES, KENTUCKY
 SUGAR HOLLAR ROAD WATER LINE REPLACEMENT



Monarch Engineering, Inc.
 556 CARLTON DRIVE
 LAWRENCEBURG, KY 40342

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**2022 WATER SYSTEM IMPROVEMENTS & REPLACEMENTS
BRONSTON WATER ASSOCIATION
PULASKI & WAYNE COUNTIES, KENTUCKY
SUGAR HOLLAR ROAD WATER LINE REPLACEMENT**

	Monarch Engineering, Inc. 556 CARLTON DRIVE LAWRENCEBURG, KY 40342		SHEET 8	
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