

**COMMONWEALTH OF KENTUCKY**  
**BEFORE THE PUBLIC SERVICE COMMISSION**

**IN THE MATTER OF:**

<b>APPLICATION OF KENTUCKY-</b>	)	
<b>AMERICAN WATER COMPANY TO</b>	)	<b>CASE NO. 2024-00272</b>
<b>AMEND TARIFF TO</b>	)	
<b>REVISE QUALIFIED INFRASTRUCTURE</b>	)	
<b>PROGRAM CHARGE</b>	)	

**DIRECT TESTIMONY OF SHELLEY PORTER, DIRECTOR OF ENGINEERING FOR  
KENTUCKY-AMERICAN WATER COMPANY, INC.**

**Filed: AUGUST 30, 2024**

## **TABLE OF CONTENTS**

I.	INTRODUCTION .....	1
II.	QIP Eligible Utility Plant and proposed projects.....	2
III.	CALCULATION OF QIP PERCENTAGE.....	14
IV.	CONCLUSION.....	14

1 I. INTRODUCTION

2 Q. Please state your name, position, and business address.

3 A. My name is Shelley Porter. I am the Director of Engineering for Kentucky-American  
4 Water Company, Inc. (“KAW” or “the Company”). My business address is 2300  
5 Richmond Road, Lexington, Kentucky 40502.

6 Q. Have you previously filed testimony at the Kentucky Public Service Commission  
7 (“Commission”)?

8 A. Yes. I filed written testimony before the Kentucky Public Service Commission in Case No.  
9 2022-00032 and Case No. 2023-00191. I also provided hearing testimony at the  
10 Commission in the December 11, 2023 and December 13, 2023 hearings for Case No.  
11 2023-00191.

12 Q. Please state your educational and professional background.

13 A. I received a Bachelor of Science in Civil Engineering from West Virginia University  
14 Institute of Technology in 2006. I earned a Master of Science in Engineering,  
15 Environmental Engineering emphasis (May 2010) and Engineering Management emphasis  
16 (December 2010). I am a registered Professional Engineer (WV #19753 and KY #29229)  
17 and a designated Model Law Engineer (“MLE”).

18 I have been employed by the Company as the Director of Engineering since June 2021.  
19 Prior to joining the Company, I was employed by West Virginia-American Water  
20 Company where I began as Project Manager in 2013, until I was promoted to Engineering  
21 Manager in 2019 responsible for capital planning, project delivery, and the company’s  
22 geographical information system (“GIS”). From 2006 to 2013, I was employed as a Project  
23 Engineer with Chapman Technical Group performing consulting engineering services for  
24 various water, wastewater, stormwater and low impact design/energy efficiency projects. I

1 currently serve on the Board for the Commonwealth of Kentucky Infrastructure Authority.  
2 I am an active member of the American Society of Civil Engineers (“ASCE”), the  
3 Women’s International Network of Utility Professionals (“WINUP”), the Water  
4 Environment Federation (“WEF”), and the American Water Works Association  
5 (“AWWA”). I have received the George Warren Fuller Award by AWWA for distinguished  
6 service to the water supply field and serve on AWWA’s Asset Management committee.

7 **Q. What is the purpose of your direct testimony?**

8 A. The purpose of my testimony is to describe generally KAW’s Qualified Infrastructure  
9 Program Rider (“QIP Rider”) that the Commission originally approved in KAW’s 2018  
10 rate case (Case No. 2018-00358). I will also describe the proposed investments KAW  
11 plans to complete in 2025 that are eligible for recovery under the QIP Rider. This is for  
12 QIP Year 6 which is also the same as calendar year 2025 (“QIP 6 2025”).

13  
14 **II. QIP ELIGIBLE UTILITY PLANT AND PROPOSED PROJECTS**

15 **Q. Please define the categories for QIP Eligible Utility Plant.**

16 A. QIP eligible utility plant includes Distribution Infrastructure and Water Treatment  
17 Infrastructure. They are both defined terms in KAW’s tariff on file with the Commission  
18 at Sheet No. 48.

19 **Q. Please describe eligible Distribution Infrastructure.**

20 A. Eligible distribution infrastructure includes distribution and transmission system structures  
21 and improvements, mains and valves installed as replacements for existing facilities;  
22 hydrants, distribution tanks; services, meters and meter installations; and power generation  
23 and pumping equipment installed as replacements for existing facilities; and unreimbursed



1 funds related to capital projects to relocate facilities required by governmental  
2 infrastructure projects.

3 **Q. Please describe eligible Water Treatment Infrastructure.**

4 A. Eligible water treatment infrastructure includes source of supply and water treatment  
5 structures, pipe and equipment including sampling equipment, SCADA (“Supervisory  
6 Control and Data Acquisition”) equipment, and power generation and pumping equipment  
7 installed as replacements for existing facilities.

8 **Q. Are projects encompassing all of the categories of QIP eligible Utility Plant included  
9 in this filing?**

10 A. No.

11 **Q. Why are certain projects not included?**

12 A. The Commission’s June 17, 2020 Order in Case No. 2020-00027 states that only projects  
13 that “are reasonably related or incidental to replacing aging mains”<sup>1</sup> should be included in  
14 QIP Rider filings. Therefore, this filing complies with this requirement.

15 **Q. Can you elaborate on what KAW projects were proposed in Case No. 2021-00090 for  
16 QIP Year 2 and what was approved?**

17 A. Yes. In Case No. 2021-00090 for QIP Rider Year 2 and in subsequent QIP cases for  
18 subsequent QIP Years, KAW submitted projects that were consistent with the  
19 Commission’s June 17, 2020 order in Case No. 2020-00027. The Commission approved  
20 most of those proposed projects. More specifically, the Commission approved all the  
21 “Budget Line B: QIP Mains Replaced/Restored” projects. But the Commission did not  
22 approve three other budget line items: (1) Budget Line C: Mains Unscheduled; (2) Budget

---

<sup>1</sup> Case No. 2020-00027, June 17, 2020 Order, p. 16.

1 Line F: Hydrants and Valves Replaced; and (3) Budget Line H: Service Lines Replaced.  
2 Replacing hydrants, valves, and service lines that are **incidental** to the main replacements  
3 as part of the Budget Line B projects was approved by the Commission. The Commission  
4 also said the following related to future QIP Applications:

5 For all future QIP applications after QIP 2, the Commission finds  
6 that the amount of main replacement included in QIP projects should  
7 be consistent with the amount proposed and approved in Case No.  
8 2018-00358, and should be based on a 25-year replacement cycle.  
9 The Commission further finds that, based on the 25-year  
10 replacement cycle, Kentucky-American should limit future QIP  
11 scheduled main replacement to 10-13 miles of main replaced each  
12 year.<sup>2</sup>

13 **Q. Do the projects proposed in this case for QIP 6 2025 comply with the Commission’s**  
14 **order quoted above?**

15 A. Yes. KAW is proposing only Budget Line B: QIP Mains Replaced/Restored items in this  
16 case. The total length of the proposed projects is 10.2 miles. And those projects are based  
17 on a 10-13 miles per year rate to meet the 25-year replacement goal. These investments  
18 are to replace aging infrastructure that is non-revenue producing. This means infrastructure  
19 that does not produce additional revenue (no new customers). Examples of infrastructure  
20 that would produce additional revenue are main extensions for new development and new  
21 services or new meters for new customers.

22 **Q. What work is associated with Budget Line B - QIP Mains Replaced/Restored?**

23 A. The work includes the scheduled replacement, renewal or improvement of existing water  
24 mains, including valves, hydrants, and other appurtenances incidental to the water main  
25 replacement. Work under this line is the planned and scheduled proactive replacement of  
26 water main that has been determined to reach its useful life or is causing service problems

---

<sup>2</sup> Case No. 2021-00090, June 21, 2021 Order, p. 12.

1 to the adjacent area serviced by the main. Water main replaced under this line item will  
2 result in a robust and more reliable water distribution system. By replacing aging water  
3 main infrastructure proactive rather than reactive basis, the distribution system will provide  
4 direct customer benefits in the form of improved and sustained water quality, improved  
5 fire protection, fewer service disruptions and lower operating and maintenance costs over  
6 time.

7 KAW plans to invest approximately \$25.3M in main replacements to various size  
8 water mains as part of 49 projects during the QIP 6 2025 forecasted period of January 1,  
9 2025 to December 31, 2025. KAW will replace approximately 53,775 feet or 10.2 miles  
10 and retire approximately 67,325 feet or 12.8 miles of main during the period. These  
11 projects are not only important in addressing the aging infrastructure needs of the  
12 community, but they also allow for the replacement of cast iron and galvanized steel lines  
13 that are leaking or have a high potential for failure.

14 **Q. What are the proposed projects that are included with Budget Line B - QIP Mains**  
15 **Replaced/Restored?**

16 A. KAW has identified 49 projects that are outlined in Exhibit 1 and shown in the maps in  
17 Exhibit 2. All projects are replacement mains that are originally of cast-iron or galvanized  
18 material.

19 **Q. How did KAW select the projects proposed in this case?**

20 A. KAW's QIP planning process begins with the utilization of the pipeline prioritization  
21 model which equates a numerical score for both likelihood of failure (LOF) and  
22 consequence of failure (COF) incorporating weighted criteria such as pipe age, historical  
23 leaks, diameter, and material. Based on the limiting criteria of cast-iron and galvanized

1 main, KAW takes a systematic approach of running the model with a selection criterion  
2 for pipeline segments with a likelihood of failure score above three (on a scale of 1 to 5),  
3 an installation year of pre-1900s and subsequently advancing through the decades, and  
4 filtering data to focus on the material types of cast iron and galvanized main. Based on  
5 these highlighted pipeline segments, adjacent pipeline segments are then reviewed for  
6 similar vintage and material types for project inclusion. We do this so that we can become  
7 aware of any leaks that are occurring in adjacent sections that are not surfacing. If we do  
8 not become aware of those, our pipe segment performance criteria based on historical leaks  
9 can be skewed. Leaks that do not surface are common for the karst topography in KAW's  
10 service territory or when leakage is associated with pinhole leaks seeping into the ground  
11 that do not cause breaks.

12           Once the prioritization model desktop analysis is complete, a field evaluation of the  
13 initial list of projects occurs to evaluate site considerations in preparing preliminary  
14 estimates. Considerations such as any recent paving activities are noted, as there may be a  
15 lag from Lexington-Fayette Urban County Government's ("LFUCG") paving condition  
16 ratings and new paving activities, which would prevent the allowance of construction  
17 activities when applying for street opening permits. Also noted are customer considerations  
18 such as hospitals, schools, business areas and parks that would be impacted by the  
19 construction activities, as these may require additional considerations for emergency  
20 services, construction timing considerations to avoid major festivals or school activities,  
21 and additional safety considerations for high pedestrian areas or road closures for narrow  
22 streets. If any potential projects occur in historic districts or may potentially impact trees,  
23 this is also noted to make sure additional projects costs associated with granite curbs,

1 potential lead services, and brick streets are considered, along with the coordination of  
2 additional LFUCG departments, which are in addition to the LFUCG departments that  
3 handle street closing and paving activities.

4 Once field evaluations are complete, KAW schedules a utility coordination meeting  
5 inviting LFUCG's Streets and Roads Division, LFUCG's Water Quality Division (both  
6 sewer and stormwater), and Columbia Gas to evaluate these specific projects and any  
7 potential efficiency or co-paving opportunities or conflicts. Additional feedback gathered  
8 during this meeting regarding other stakeholders' planning activities is considered and  
9 analyzed to establish the final list that is presented to the Commission for approval by  
10 KAW in a QIP case.

11 **Q. What are the estimated costs for the QIP 6 2025 projects?**

12 A. The engineer's opinion of estimated project costs and project specific maps for each of the  
13 proposed QIP 6 2025 projects can be found in Exhibit 2. It is important to note that the  
14 majority of the projects selected for QIP 6 2025 are located in downtown areas of  
15 Lexington, Millersburg, Owenton and Sadieville. Due to the locations, these projects will  
16 require significant traffic control and construction coordination due to higher traffic or  
17 narrow roadways, the need to maintain access to businesses, schools, hospitals, and tourism  
18 attractions, and a lack of laydown areas for construction materials. There may be additional  
19 considerations for surface restoration as many are located in historic preservations areas.

20 Many of the selected projects are related to pre-1930s vintage cast iron main, where  
21 company side lead services have been uncovered during previous QIP project work. On  
22 November 30, 2023, the Environmental Protection Agency's ("EPA") announced the  
23 proposed Lead and Copper Rule Improvements which includes requirements for the

1 replacement of lead services and some galvanized services requiring replacement that are  
2 currently or have historically been downstream of lead, with a 10-year period for  
3 compliance. In anticipation of the expected implementation of these regulations in 2024,  
4 aligning QIP 6 2025 main replacement projects with areas that are suspected to contain  
5 company lead services line creates cost efficiencies associated with contractor  
6 mobilization, traffic control, and pavement restoration cost.

7 **Q. What steps has KAW taken to control main replacement project costs?**

8 A. For QIP 6 2025 projects, KAW has continued grouping projects in geographical proximity  
9 for design and construction efficiency, when appropriate. Bundling projects for design and  
10 construction allows contractor firms to focus their efforts and equipment in a concentrated  
11 area. Also, for QIP 6 2025, KAW provided a formal, standardized scope of work to all  
12 design contractor firms to improve consistency and communication expectations. KAW  
13 continues to utilize national contracts that leverage American Water Works Service  
14 Company's ("Service Company") volumes to secure discounts and thus minimize cost  
15 increases for material such as piping, fittings, and service line materials.

16 KAW obtains competitive bids for all QIP projects through pre-approved  
17 contractors and continues to engage with LFUCG and other utilities to determine if there  
18 are opportunities to coordinate our construction and provide opportunities for efficiencies  
19 in paving project work. On October 10, 2023, the formal pavement sharing agreement  
20 between KAW and LFUCG was executed, which provides a formal application process to  
21 LFUCG to evaluate pavement cost sharing opportunities. This has led to a graduated cost  
22 sharing mechanism based on LFUCG's pavement rating prior to project work. The formal  
23 pavement sharing process, application, and agreements can be found in Exhibit 3.

1 **Q. Part of KAW project costs are pavement restoration that must be performed after**  
2 **KAW replaces a main in a public road. What specifically has KAW done to control**  
3 **and minimize its pavement restoration expenses?**

4 A. The paving restoration requirements on public roadways within Lexington are outlined in  
5 LFUCG’s Chapter 17C of the Code of Ordinances and in the Standard Drawings, of which  
6 200, 201-1, 201-2, 201-4, 300, 301, 302, 303, 304, 307-1, 307-2 primarily relate to 17C.  
7 While general details and guidance are outlined in these documents, the restoration  
8 requirement is ultimately determined post construction, immediately prior to paving, based  
9 on the judgment of the LFUCG representative maintain the performance of the pavement  
10 post construction. KAW recognizes that beneficial partnerships with LFUCG and  
11 coordination with other utilities through effective communication, planning, performance,  
12 and continuous process improvement is critical to reducing paving costs. While we have  
13 not realized a significant quantifiable reduction in paving costs yet, KAW continues to  
14 focus on this issue. Throughout the implementation of QIP projects , and in development  
15 of QIP 6 2025 projects, KAW continues to engage LFUCG at multiple levels of business  
16 and government to advocate for judicious paving requirements and to find opportunities  
17 for efficiencies towards the minimization of paving costs to KAW ratepayers through the  
18 following activities:

- 19 • LFUCG Utility Coordination Committee Meetings (“UCCM”): KAW staff attends every  
20 UCCM meeting. During these meetings, KAW has requested consideration of LFUCG  
21 completing the paving using their paving contract and pricing. While this request has been  
22 met with apprehension in the past by LFUCG due to the administrative lift and resources,  
23 the continued engagement of LFUCG representatives has resulted in the openness to

1 explore a pilot where LFUCG will consider a limited number of projects to perform the  
2 paving under their paving contract. KAW advocated for the pre-existing LFUCG pavement  
3 rating to be considered as part of the post construction restoration requirements in an effort  
4 to align the paving restoration to the 5-foot trench width detail in the LFUCG Standard  
5 Details (for roadways over a certain paving rating).

6 Due to KAW's continued feedback and strong advocacy, the consideration of  
7 LFUCG's paving condition rating has been incorporated into the cost sharing calculations  
8 under the formal pavement sharing agreement process. However, the required paving  
9 extents are still based on LFUCG's judgement post construction and are not limited to the  
10 5-foot trench width details. The utilization of the pavement rating moves cost sharing  
11 towards a more standard, cost-sensitive, approach that allows rate payers to benefit from  
12 aligning paving costs that should be within LFUCG's existing pavement program planning  
13 and is beneficial in coordinating partnering opportunities. In part due to KAW's feedback,  
14 future UCCM meetings will be more project- and coordination-focused between utilities  
15 and LFUCG in executing and planning the replacement program projects, with the goal to  
16 minimize paving costs and construction disruptions, while still maintaining maintained  
17 safe, quality roadways for the community.

- 18 • Project Coordination Meetings: LFUCG also hosts bi-monthly project coordination  
19 meetings for their storm and sanitary sewer departments. KAW staff attends every one of  
20 these meetings and provides information about upcoming projects or coordination needs.  
21 The project coordination meetings have been beneficial to find opportunities to cost share  
22 paving with other utilities and are necessary to coordinate construction timing. With  
23 Commission approval, KAW has realigned the QIP construction period to a calendar year



1 to better align with LFUCG paving planning. KAW's project list has been a primary driver  
2 for cost sharing opportunities with underground main replacement projects involving  
3 KAW and Columbia Gas. To that end, KAW and Columbia Gas and KAW met on August  
4 6, 2024 with follow up meeting anticipated for December 2024. These meetings are in  
5 addition to continual communication that occurs weekly for paving updates and planning  
6 lists that are sent from LFUCG for changing paving priorities and planning development  
7 for review.

- 8 • Weekly Paving Meeting: During the months that the asphalt plants are open and operating,  
9 LFUCG and LFUCG's designated paving contractor host weekly meetings to review what  
10 streets will be paved that week. KAW staff regularly attends these meetings and shares  
11 information within KAW and from KAW back to LFUCG and the paving contractor. The  
12 content of these meetings is focused on near-term paving, not long-term planning.
- 13 • Utilization of Pavement Rating in Project Planning: As previously discussed, KAW  
14 utilized the pavement rating from LFUCG in conjunction with the pipeline prioritization  
15 model in order to select streets that were both highly ranked in the model and likely to need  
16 new pavement within the next few years. This allows KAW to be as cost-efficient as  
17 possible with the selection of the project list regarding final pavement and restoration  
18 requirements. Furthermore, KAW has engaged several relevant departments within  
19 LFUCG earlier in our planning process. The group includes Streets & Roads, Engineering,  
20 and Water Quality. At the time the initial list of projects is identified, the list is shared with  
21 this group from LFUCG and they have the opportunity to provide any comments, feedback,  
22 or coordination suggestions.

- 1 • Utility Partnering Opportunities: Once QIP projects have been identified in the planning  
2 phase, the maps and locations are shared with other utilities, such as Columbia Gas.  
3 Columbia Gas does the same, sharing their planned projects with KAW. This allows KAW  
4 to determine if other utilities have upcoming projects in the same vicinity. In several cases,  
5 we have been able to coordinate our construction schedules in these areas to minimize the  
6 disruption to residents. This information-sharing has also helped highlight some streets that  
7 may need to be moved up or down on the priority ranking based on other utilities' planned  
8 work. Additionally, KAW and other utilities regularly share construction plans on shared  
9 streets so that all parties can ensure, where possible, that their intended route does not create  
10 new points of conflict.
- 11 • QIP Project Walkthroughs and Reviews: For every QIP main replacement project, the site  
12 is walked and reviewed by LFUCG's inspector along with the KAW construction  
13 representative and contractor. The final paving and restoration requirements are defined  
14 during this site walkthrough. KAW requested a pre-construction walkthrough to establish  
15 an anticipated restoration scope, but because the 17-C ordinance is performance-based and  
16 relies heavily on the actual disturbance areas post construction, a determination of this  
17 nature was deemed premature. To help KAW, our design firms, and our contractors better  
18 anticipate and estimate the disturbance limits of the QIP projects, LFUCG's Municipal  
19 Senior Engineer for the Division of Engineering has provided training on the 17-C  
20 ordinance and associated design documents and paving policies to all involved. KAW has  
21 implemented this training as an annual requirement for our design firms and contractors  
22 that work on QIP projects.

- Construction Project Manager: KAW maintains a Construction Project Manager role that is the first point of contact for all construction-related issues. This role holds regular meetings with our contractors to relay information and maintain contractor accountability, interfaces with LFUCG and other utilities, and is heavily involved in communications with customers and LFUCG council representatives.

**Q. Please provide a project reconciliation for QIP Year 4 which was approved in Case No. 2023-00030.**

A. KAW planned to invest approximately \$20.1M in additions to replace various size water mains as part of 47 main replacement projects during the QIP Year 4 forecasted period of July 1, 2023 to June 30, 2024. KAW invested \$22.2M to replace approximately 58,466 feet or 11.07 miles of main. All projects filed with QIP Year 4 were placed in-service prior to June 30, 2024 with one exception, the Centerville/Boone/Sulphur Lane and N. Cleveland Rd project due to right-of-way challenges associated with privately owned road. Additionally, approximately 765 LF of pipe along Greentree Road will be placed into service after June 30, 2024, as the project has been in partnership with LFUCG sewer placing segments of pipe in-service as we have followed LFUCG's contractor. These roadways, total approximately 1.1 miles of QIP Year 4 replacements. A summary of the in-service QIP Year 4 project reconciliation totals for the period of July 1, 2023 to June 30, 2024 is included in Exhibit 4.

1

2

### III. CALCULATION OF QIP PERCENTAGE

3 **Q. What witness is responsible for the calculation of the QIP Rider amount that results**  
4 **from these infrastructure improvements?**

5 A. KAW witness Dominic DeGrazia covers the calculation of the requested QIP Rider amount  
6 in his direct testimony.

7

### IV. CONCLUSION

8 **Q. What is your recommendation for the Commission?**

9 A. I recommend that the Commission approve this petition for the QIP Rider amount as  
10 proposed.

11 **Q. Does this conclude your testimony?**

12 A. Yes, it does.

VERIFICATION

COMMONWEALTH OF KENTUCKY )  
 ) SS:  
COUNTY OF FAYETTE )

The undersigned, Shelley Porter, being duly sworn, deposes and says that she is the Director of Engineering for Kentucky-American Water Company, that she has personal knowledge of the matters set forth in the foregoing testimony and that the answers contained therein are true and correct to the best of her information, knowledge and belief.

Shelley Porter  
Shelley Porter, Director of Engineering

Subscribed and sworn to before me, a Notary Public in and before said County and State, this 21<sup>st</sup> day of August, 2024.

Molly McCleese Van Over  
Notary Public

My Commission Expires:  
July 31, 2025  
ID# KYNP26988

MOLLY MCCLEESE VAN OVER  
NOTARY PUBLIC  
COMMONWEALTH OF KENTUCKY  
ID # KYNP26988  
MY COMMISSION EXPIRES JULY 31, 2025

PROJECT NO.	TITLE	COUNTY	VINTAGE	MATERIAL	DIAMETER (IN)	INSTALL LENGTH (LF)	REPLACE/ABANDON LENGTH (LF)	ADDITIONS \$	REMOVALS \$	TOTAL \$
1*	New Circle Rd ( Bore for Opportunity Way)	FAYETTE	1961	Cast Iron	12	150	150	\$ 136,398	\$ 15,155	\$ 151,553
2	N. Broadway Park (Limestone to Broadway)	FAYETTE	1922	Cast Iron	2	1,000	2,000	\$ 438,758	\$ 48,751	\$ 487,509
3	Warnock Street	FAYETTE	1928	Cast Iron	1, 6	550	550	\$ 204,918	\$ 22,769	\$ 227,686
4	Kastle Road (Tremont to Sunset)	FAYETTE	1923	Cast Iron	1, 4	650	650	\$ 264,610	\$ 29,401	\$ 294,011
5	Melrose Avenue	FAYETTE	1923	Cast Iron	4, 6	1,350	1,350	\$ 520,594	\$ 57,844	\$ 578,438
6	Shawnee Place	FAYETTE	1927	Cast Iron	2, 4, 6	850	850	\$ 375,450	\$ 41,717	\$ 417,167
7*	Hagerman Court	FAYETTE	1905-1906	Cast Iron	4, 6	1,000	1,000	\$ 487,712	\$ 54,190	\$ 541,902
8	Arcadia Park	FAYETTE	1927	Cast Iron	4, 6	2,800	2,800	\$ 1,373,974	\$ 152,664	\$ 1,526,638
9*	Willard Street	FAYETTE	1908	Cast Iron	6	950	950	\$ 394,668	\$ 43,852	\$ 438,520
10	South Upper Street (Cedar to Limestone)	FAYETTE	1909	Cast Iron	8	1,600	1,600	\$ 814,460	\$ 90,496	\$ 904,956
11	High Street (Rose to Mill)	FAYETTE	1884	Cast Iron	6, 8	2,600	2,600	\$ 1,201,883	\$ 133,543	\$ 1,335,425
12	Graham Avenue / Gladstone Avenue	FAYETTE	1904-1919	Cast Iron	6	1,300	1,300	\$ 423,348	\$ 47,039	\$ 470,387
13	Lackawanna / Wabash (Replace)	FAYETTE	1928-1936	Cast Iron	6	2,100	2,100	\$ 1,036,201	\$ 115,133	\$ 1,151,334
14	Lackawanna / Wabash / Pensacola (Retire)	FAYETTE	1936-1950	Cast Iron	2	0	1,800	\$ 145,912	\$ 16,212	\$ 162,124
15	Euclid Avenue (High to S Ashland)	FAYETTE	1914	Cast Iron	6	500	500	\$ 421,218	\$ 46,802	\$ 468,020
16*	South Ashland (Euclid to Ashland Terrace)	FAYETTE	1914	Cast Iron	6	450	450	\$ 329,505	\$ 36,612	\$ 366,117
17*	Ashland Terrace	FAYETTE	1914	Cast Iron	6	750	750	\$ 496,885	\$ 55,209	\$ 552,094
18*	Sycamore Road (south of Richmond Rd)	FAYETTE	1925	Cast Iron	6	2,000	2,000	\$ 835,209	\$ 92,801	\$ 928,010
19	Wilderness Road	FAYETTE	1969	Galvanized Iron	2	0	3,500	\$ 394,656	\$ 43,851	\$ 438,507
20*	Uttinger Lane	FAYETTE	1955	Galvanized Iron	2	1,500	1,500	\$ 566,330	\$ 62,926	\$ 629,256
21	Columbus Lane	FAYETTE	1955	Galvanized Iron	2	2,300	2,300	\$ 737,313	\$ 81,924	\$ 819,237
22	Williams Lane	FAYETTE	1970	Galvanized Iron	0.5, 1.25	100	100	\$ 71,637	\$ 7,960	\$ 79,596
23	Adena Lane	FAYETTE	1966	Galvanized Iron	3	800	800	\$ 261,324	\$ 29,036	\$ 290,360
24	Georgetown Road (south of Berea Road)	FAYETTE	1957	Galvanized Iron	2	0	1,800	\$ 49,042	\$ 5,449	\$ 54,491
25	Devine Avenue	FAYETTE	1959	Galvanized Iron	2	300	300	\$ 144,511	\$ 16,057	\$ 160,568
26	Johnson Aly	SCOTT	1964	Galvanized Iron	1.25	250	250	\$ 99,118	\$ 11,013	\$ 110,131
27	Preston Avenue	FAYETTE	1936	Cast Iron	2, 6	2,200	2,200	\$ 864,108	\$ 96,012	\$ 960,120
28	Willowlawn Avenue	FAYETTE	1937	Cast Iron	2	200	200	\$ 86,127	\$ 9,570	\$ 95,697
29	Whispering Wood Lane	FAYETTE	1938	Cast Iron	2	550	550	\$ 197,475	\$ 21,942	\$ 219,416
30	McCubbing Drive	FAYETTE	1947-1974	Cast Iron	2, 6	650	650	\$ 277,954	\$ 30,884	\$ 308,838
31	Longview Drive	FAYETTE	1948-1974	Cast Iron	2, 6	1,500	1,500	\$ 581,024	\$ 64,558	\$ 645,582
32	Walton Avenue (Main to Booneboro)	FAYETTE	1900	Cast Iron	10	1,500	1,500	\$ 641,588	\$ 71,288	\$ 712,876
33*	Lexington Avenue	FAYETTE	1884	Cast Iron	8	950	950	\$ 528,227	\$ 58,692	\$ 586,919
34	Washington Avenue	FAYETTE	1906	Cast Iron	8	1,000	1,000	\$ 489,192	\$ 54,355	\$ 543,547
35	Hawkins Avenue	FAYETTE	1904	Cast Iron	6	800	800	\$ 380,779	\$ 42,309	\$ 423,088
36*	Wilgus Avenue	FAYETTE	1905	Cast Iron	6	350	350	\$ 182,884	\$ 20,320	\$ 203,205
37*	Race Street (Third to Fifth)	FAYETTE	1902	Cast Iron	8	1,300	1,300	\$ 570,706	\$ 63,412	\$ 634,118
38	College Street (Sadieville)	SCOTT	1964	Cast Iron	2, 4, 6	850	850	\$ 369,153	\$ 41,017	\$ 410,170
39	Jones Hill St (Owenton)	OWEN	1970	Galvanized Iron	2	300	300	\$ 142,394	\$ 15,822	\$ 158,215
40	Sunset Drive (Owenton)	OWEN	1969	Cast Iron	2, 4	725	725	\$ 388,980	\$ 43,220	\$ 432,200
41*	N. Limestone (New Circle to W Sixth St)	FAYETTE	1884-1937	Cast Iron	6, 12	6,350	11,800	\$ 3,487,133	\$ 387,459	\$ 3,874,592
42*	Fontaine Rd (High St to Chinoe)	FAYETTE	1922-1928	Cast Iron	6	3,800	3,800	\$ 1,530,258	\$ 170,029	\$ 1,700,287
43*	E 5th St (Pemberton St to Race St)	FAYETTE	1902	Cast Iron	8	200	200	\$ 125,950	\$ 13,994	\$ 139,944
44*	Corral St (Race St to Midland Ave)	FAYETTE	1927-1974	Cast Iron	6	450	450	\$ 182,833	\$ 20,315	\$ 203,148
45*	Pine St - Lawrence St	FAYETTE	1926	Cast Iron	6	900	900	\$ 530,647	\$ 58,961	\$ 589,608
46*	Warwick Ct (Redding Rd to Dead End)	FAYETTE	1972	Cast Iron	2, 6	900	900	\$ 378,040	\$ 42,004	\$ 420,044
47*	Arrowhead Ct (Arrowhead Dr to Dead End)	FAYETTE	1959	Cast Iron	2	350	350	\$ 168,253	\$ 18,695	\$ 186,948
48	Pike St (Sadieville)	SCOTT	1964	Cast Iron	4	1,650	1,650	\$ 683,336	\$ 75,926	\$ 759,262
49	W. Fourth Street (Millersburg)	BOURBON	1927	Cast Iron	2	450	450	\$ 251,200	\$ 27,911	\$ 279,111
<b>TOTAL</b>		49				53,775	67,325	\$ 25,263,875	\$ 2,807,097	\$ 28,070,973
					Miles	10.2	12.8			

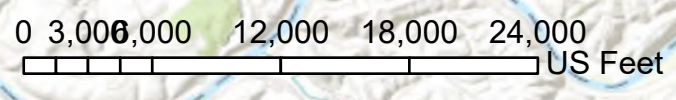
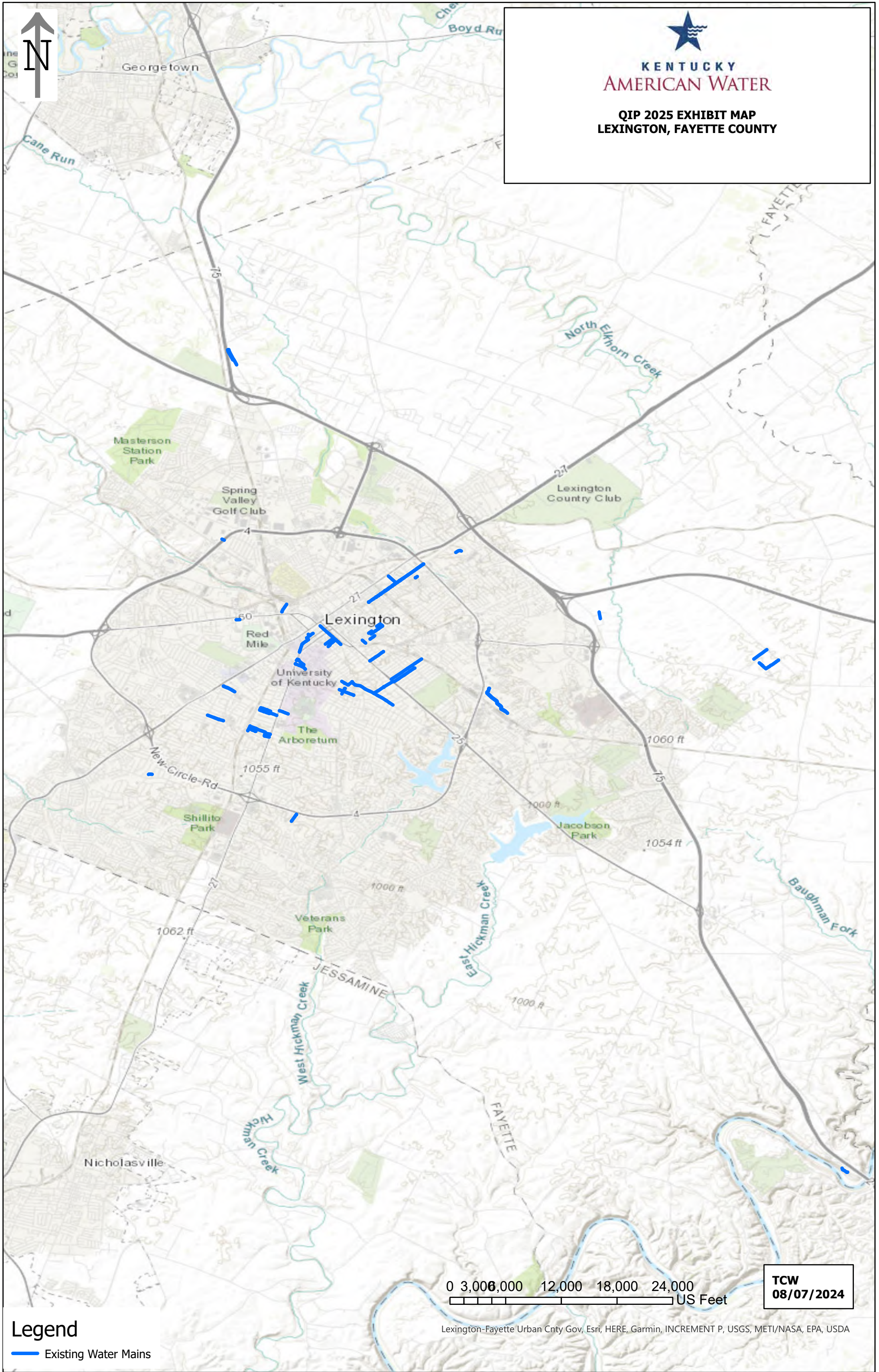
\*Potential Pavement Share






KENTUCKY  
AMERICAN WATER

QIP 2025 EXHIBIT MAP  
LEXINGTON, FAYETTE COUNTY



TCW  
08/07/2024

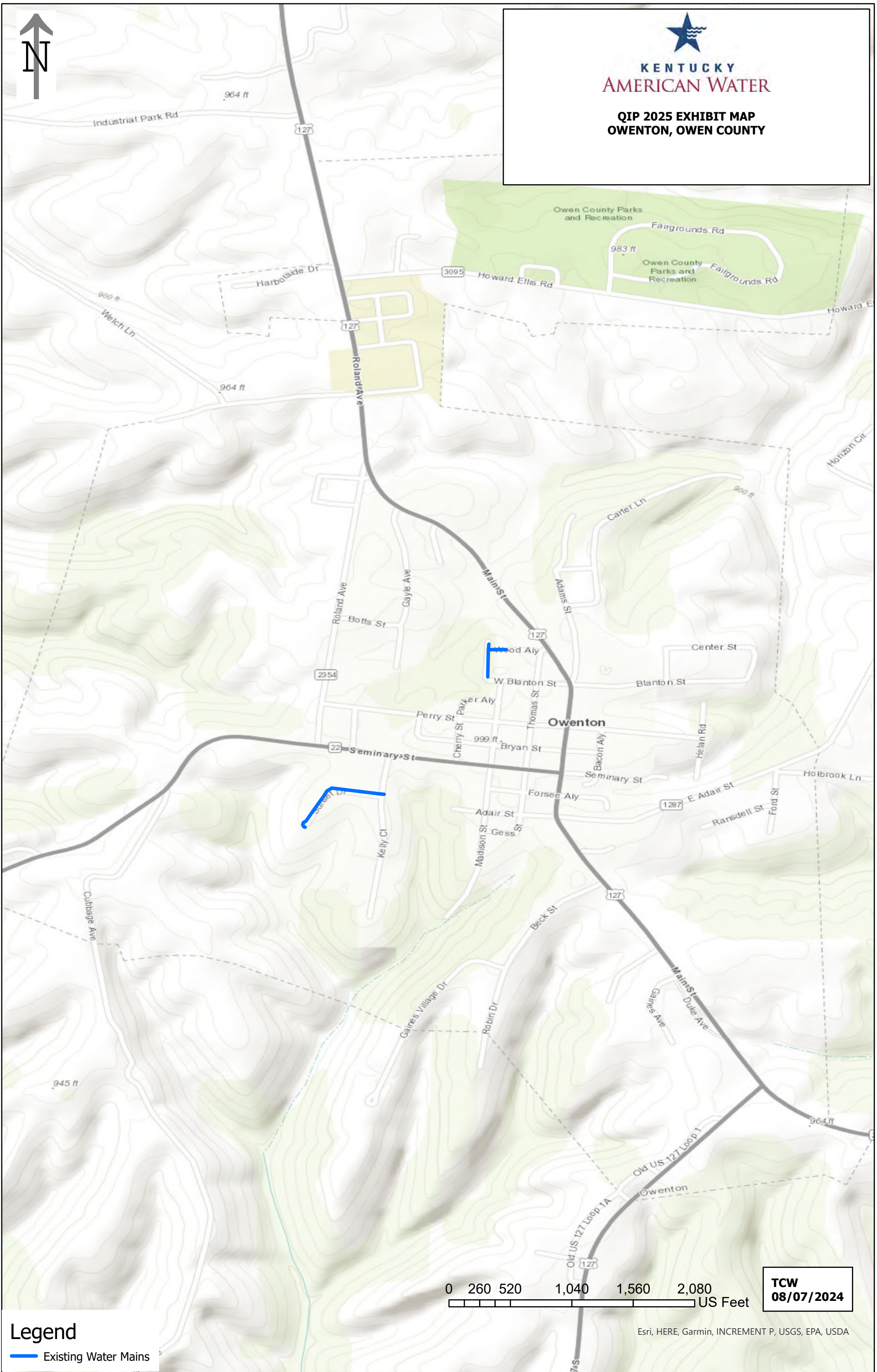
Legend

 Existing Water Mains





**QIP 2025 EXHIBIT MAP  
OWENTON, OWEN COUNTY**



**Legend**

 Existing Water Mains

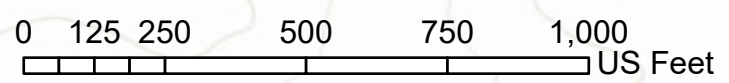
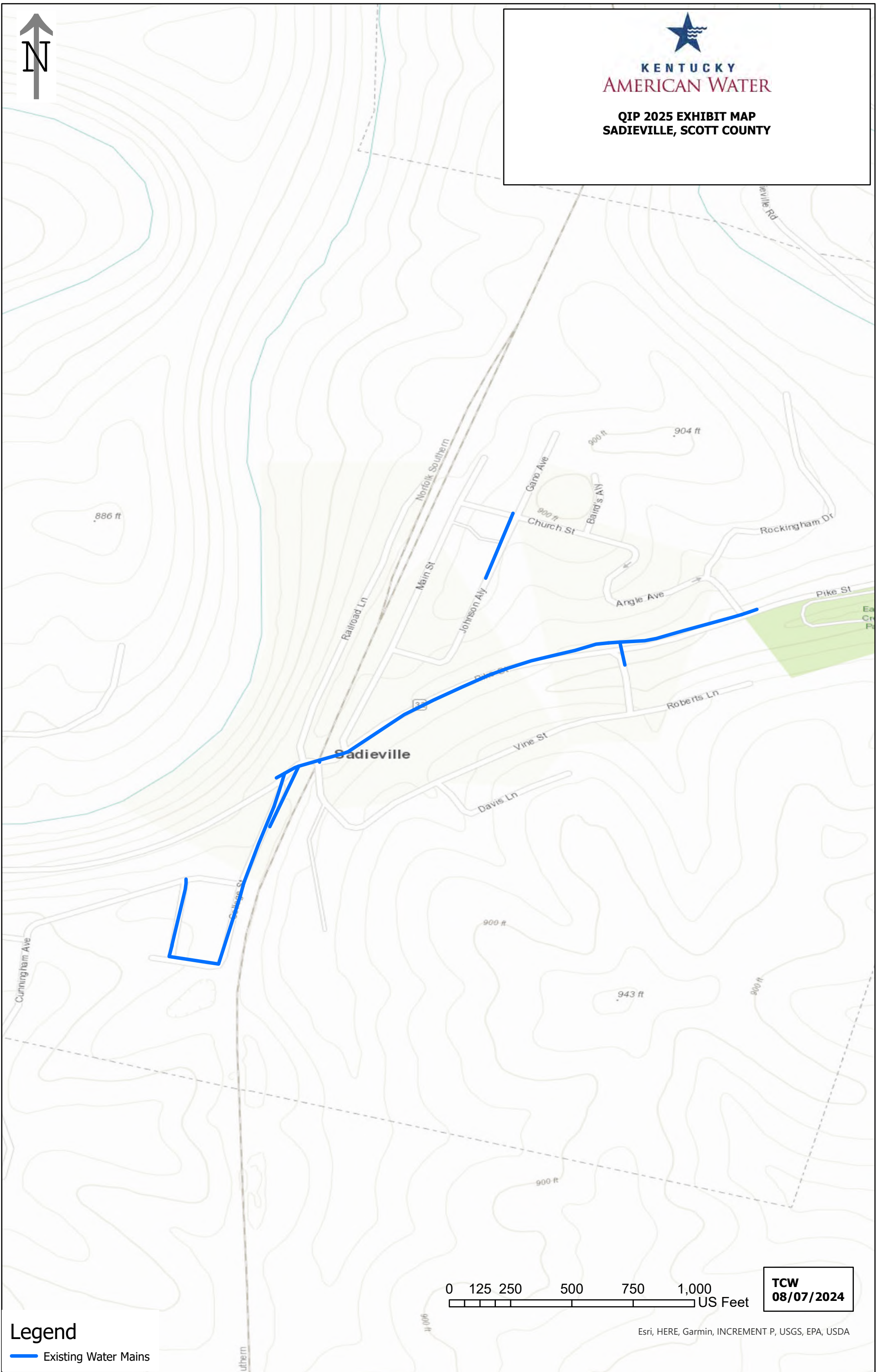
0 260 520 1,040 1,560 2,080  
US Feet

**TCW  
08/07/2024**





**QIP 2025 EXHIBIT MAP  
SADIEVILLE, SCOTT COUNTY**



**TCW  
08/07/2024**

**Legend**

 Existing Water Mains





KENTUCKY  
AMERICAN WATER

QIP 2025 EXHIBIT MAP  
MILLERSBURG, BOURBON COUNTY



Legend

Existing Water Mains

0 400 800 1,600 2,400 3,200  
US Feet

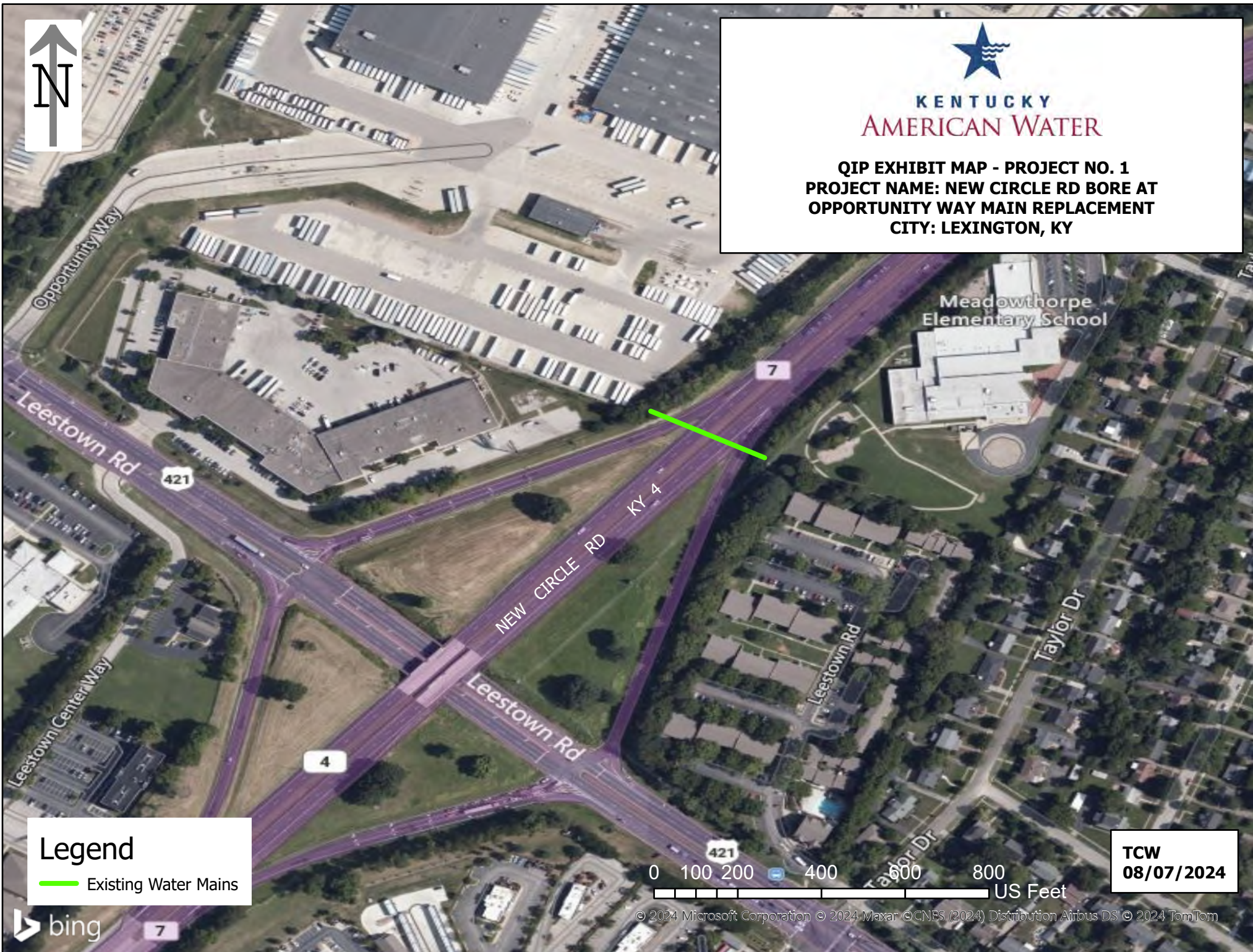
TCW  
08/07/2024






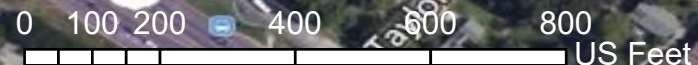
KENTUCKY  
AMERICAN WATER

**QIP EXHIBIT MAP - PROJECT NO. 1**  
**PROJECT NAME: NEW CIRCLE RD BORE AT**  
**OPPORTUNITY WAY MAIN REPLACEMENT**  
**CITY: LEXINGTON, KY**

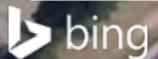


**Legend**

 Existing Water Mains



**TCW**  
**08/07/2024**








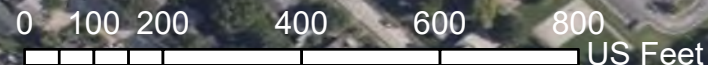
KENTUCKY  
AMERICAN WATER

QIP EXHIBIT MAP - PROJECT NO. 2  
PROJECT NAME: N BROADWAY PARK MAIN REPLACEMENT  
CITY: LEXINGTON, KY



**Legend**

 Existing Water Mains



**TCW**  
**07/24/2024**







KENTUCKY  
AMERICAN WATER

QIP EXHIBIT MAP - PROJECT NO. 3  
PROJECT NAME: WARNOCK ST MAIN REPLACEMENT  
CITY: LEXINGTON, KY



Legend

Existing Water Mains

TCW  
07/24/2024








KENTUCKY  
AMERICAN WATER

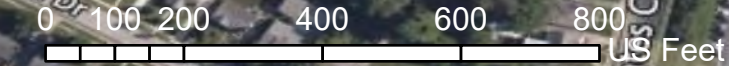
QIP EXHIBIT MAP - PROJECT NO. 4  
PROJECT NAME: KASTLE RD MAIN REPLACEMENT  
CITY: LEXINGTON, KY



**Legend**

 Existing Water Mains

**TCW**  
**07/24/2024**







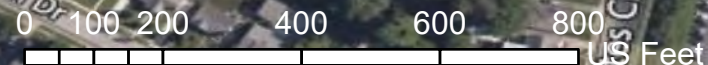
KENTUCKY  
AMERICAN WATER

QIP EXHIBIT MAP - PROJECT NO. 5  
PROJECT NAME: MELROSE AVE MAIN REPLACEMENT  
CITY: LEXINGTON, KY



Legend

Existing Water Mains



TCW  
07/24/2024





KENTUCKY  
AMERICAN WATER

QIP EXHIBIT MAP - PROJECT NO. 6  
PROJECT NAME: SHAWNEE PL MAIN REPLACEMENT  
CITY: LEXINGTON, KY



Legend

Existing Water Mains



TCW  
07/24/2024








KENTUCKY  
AMERICAN WATER

QIP EXHIBIT MAP - PROJECT NO. 7  
PROJECT NAME: HAGERMAN CT MAIN REPLACEMENT  
CITY: LEXINGTON, KY



**Legend**

 Existing Water Mains

TCW  
07/24/2024





KENTUCKY  
AMERICAN WATER

QIP EXHIBIT MAP - PROJECT NO. 8  
PROJECT NAME: ARCADIA PARK MAIN REPLACEMENT  
CITY: LEXINGTON, KY



Legend

Existing Water Mains



TCW  
07/24/2024







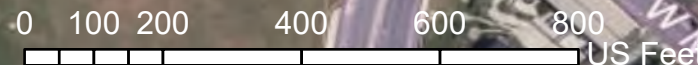
KENTUCKY  
AMERICAN WATER

QIP EXHIBIT MAP - PROJECT NO. 9  
PROJECT NAME: WILLARD ST MAIN REPLACEMENT  
CITY: LEXINGTON, KY



Legend

Existing Water Mains



TCW  
07/24/2024






KENTUCKY  
AMERICAN WATER

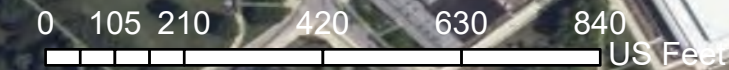
**QIP EXHIBIT MAP - PROJECT NO. 10**  
**PROJECT NAME: S UPPER ST MAIN REPLACEMENT**  
**CITY: LEXINGTON, KY**



**Legend**

 Existing Water Mains

**TCW**  
**07/24/2024**

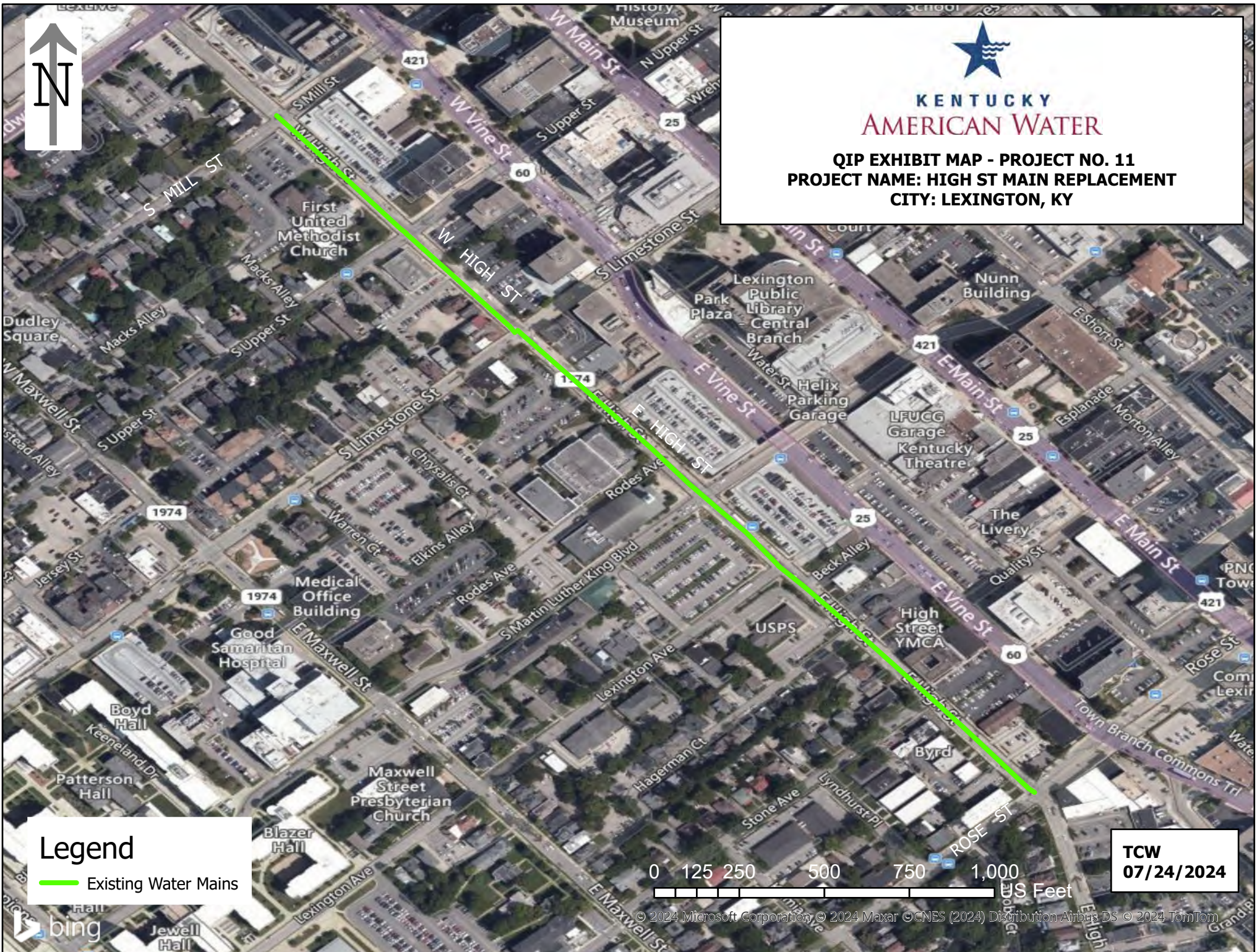






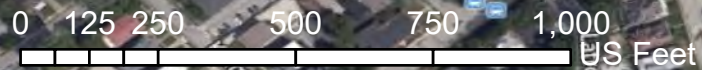
KENTUCKY  
AMERICAN WATER

**QIP EXHIBIT MAP - PROJECT NO. 11**  
**PROJECT NAME: HIGH ST MAIN REPLACEMENT**  
**CITY: LEXINGTON, KY**



**Legend**

 Existing Water Mains



**TCW**  
**07/24/2024**





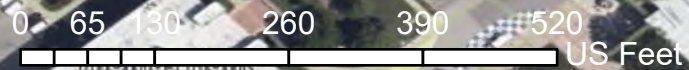

**KENTUCKY  
AMERICAN WATER**

**QIP EXHIBIT MAP - PROJECT NO. 12**  
**PROJECT NAME: GRAHAM AVE/GLADSTONE AVE**  
**MAIN REPLACEMENT**  
**CITY: LEXINGTON, KY**



### Legend

 Existing Water Mains



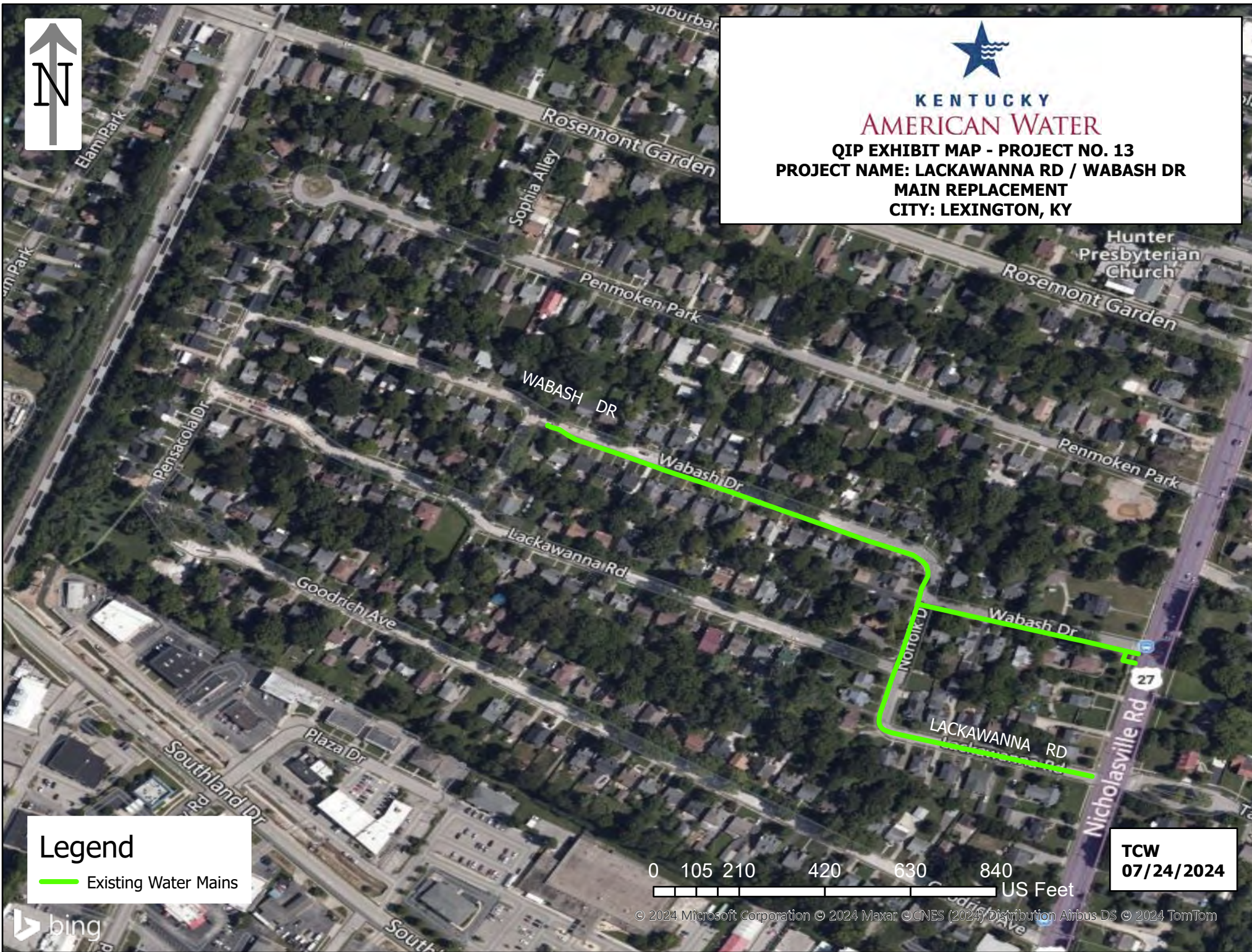
**TCW**  
**07/24/2024**






KENTUCKY  
AMERICAN WATER

QIP EXHIBIT MAP - PROJECT NO. 13  
PROJECT NAME: LACKAWANNA RD / WABASH DR  
MAIN REPLACEMENT  
CITY: LEXINGTON, KY



Legend

 Existing Water Mains

TCW  
07/24/2024

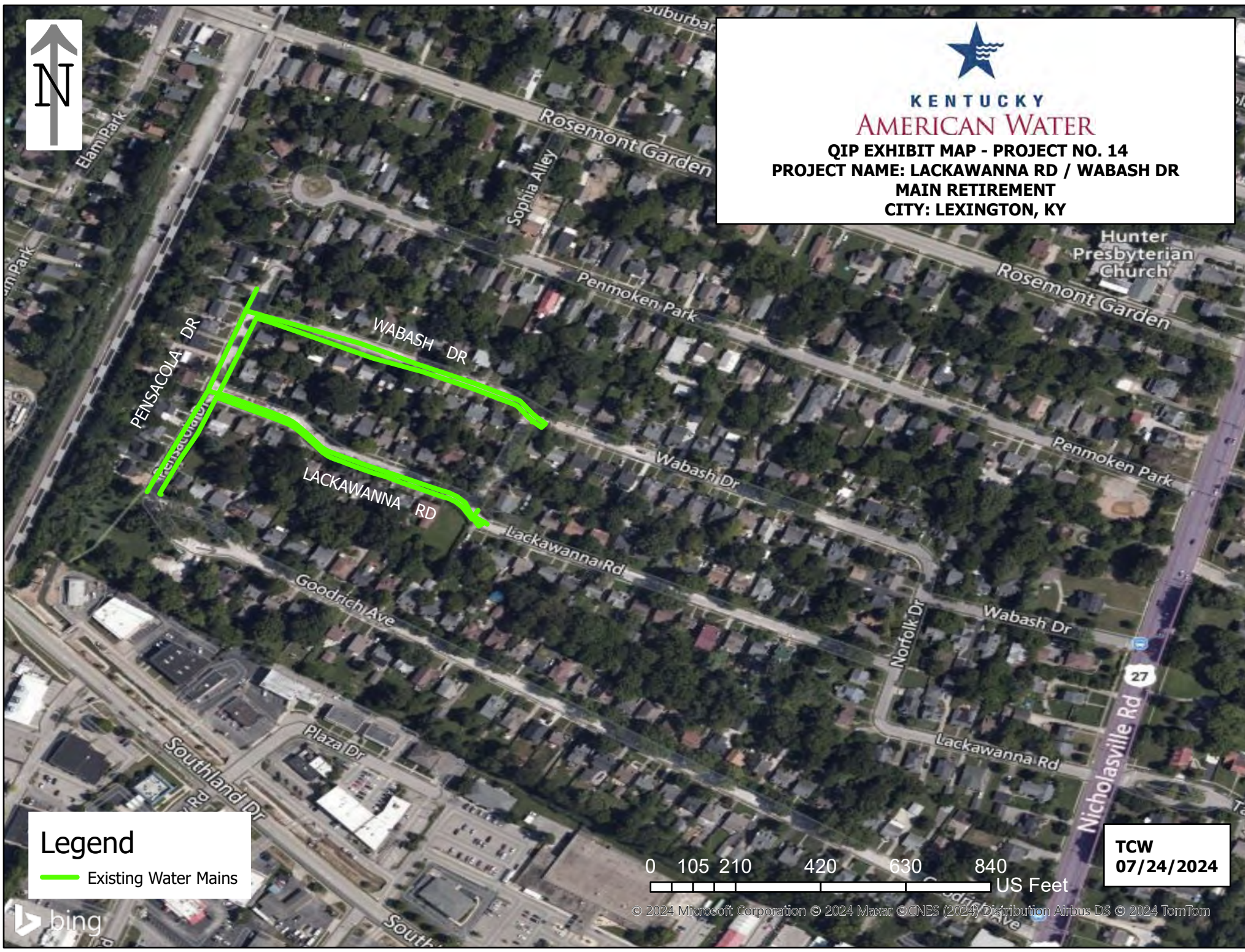







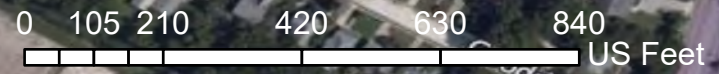
KENTUCKY  
AMERICAN WATER

QIP EXHIBIT MAP - PROJECT NO. 14  
PROJECT NAME: LACKAWANNA RD / WABASH DR  
MAIN RETIREMENT  
CITY: LEXINGTON, KY



Legend

 Existing Water Mains



TCW  
07/24/2024








KENTUCKY  
AMERICAN WATER

**QIP EXHIBIT MAP - PROJECT NO. 15**  
**PROJECT NAME: EUCLID AVE MAIN REPLACEMENT**  
**CITY: LEXINGTON, KY**



**Legend**

 Existing Water Mains

**TCW**  
**07/24/2024**






KENTUCKY  
AMERICAN WATER

**QIP EXHIBIT MAP - PROJECT NO. 16**  
**PROJECT NAME: S ASHLAND AVE MAIN REPLACEMENT**  
**CITY: LEXINGTON, KY**



**Legend**

 Existing Water Mains

**TCW**  
**07/24/2024**





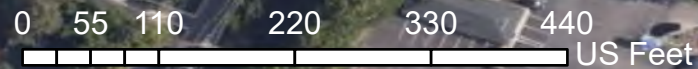
KENTUCKY  
AMERICAN WATER

**QIP EXHIBIT MAP - PROJECT NO. 17**  
**PROJECT NAME: ASHLAND TERRACE MAIN REPLACEMENT**  
**CITY: LEXINGTON, KY**

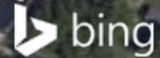


**Legend**

 Existing Water Mains



**TCW**  
**07/24/2024**

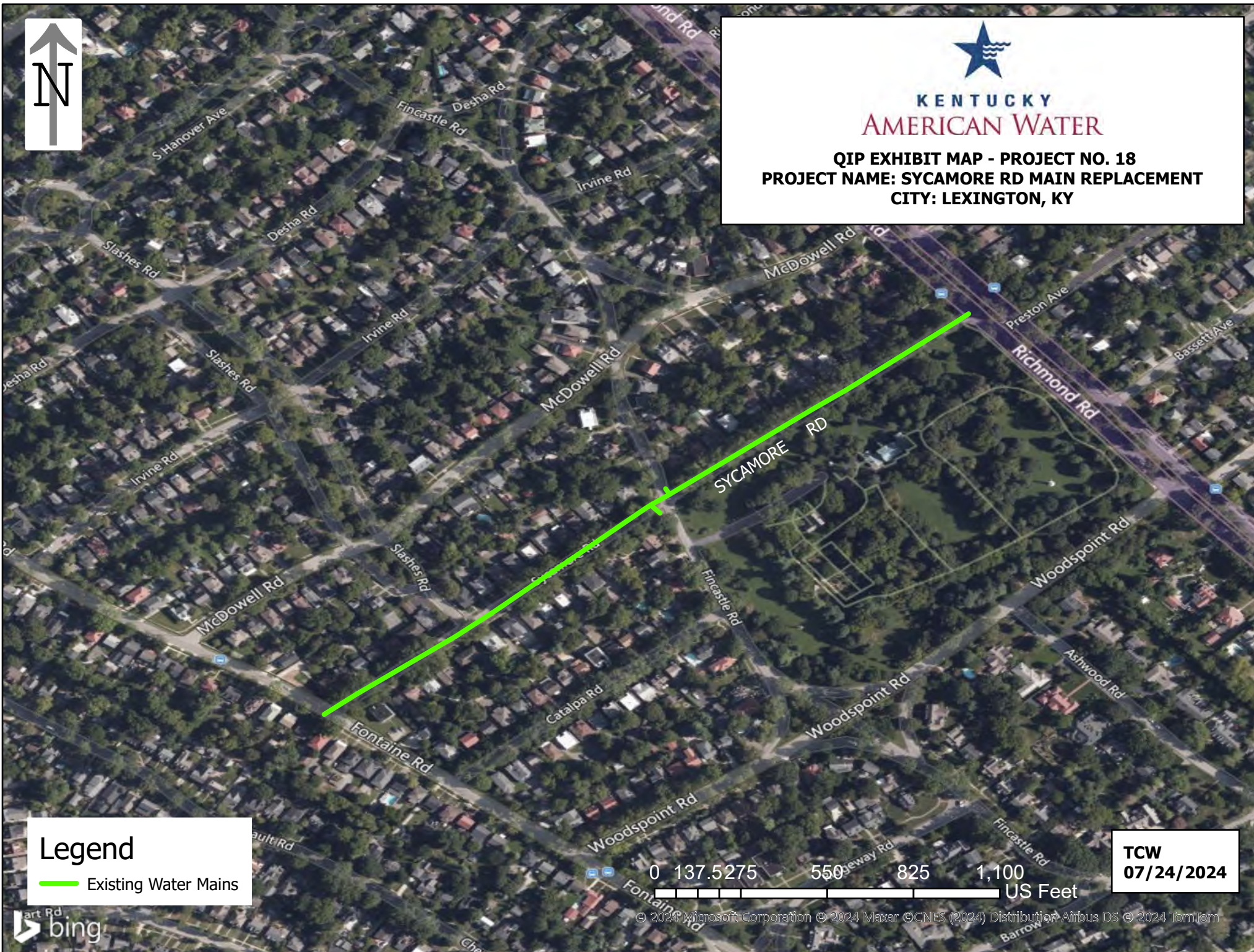







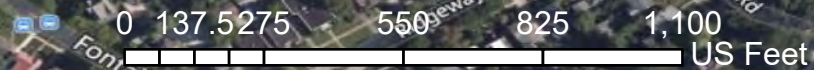
KENTUCKY  
AMERICAN WATER

**QIP EXHIBIT MAP - PROJECT NO. 18**  
**PROJECT NAME: SYCAMORE RD MAIN REPLACEMENT**  
**CITY: LEXINGTON, KY**



**Legend**

 Existing Water Mains



**TCW**  
**07/24/2024**

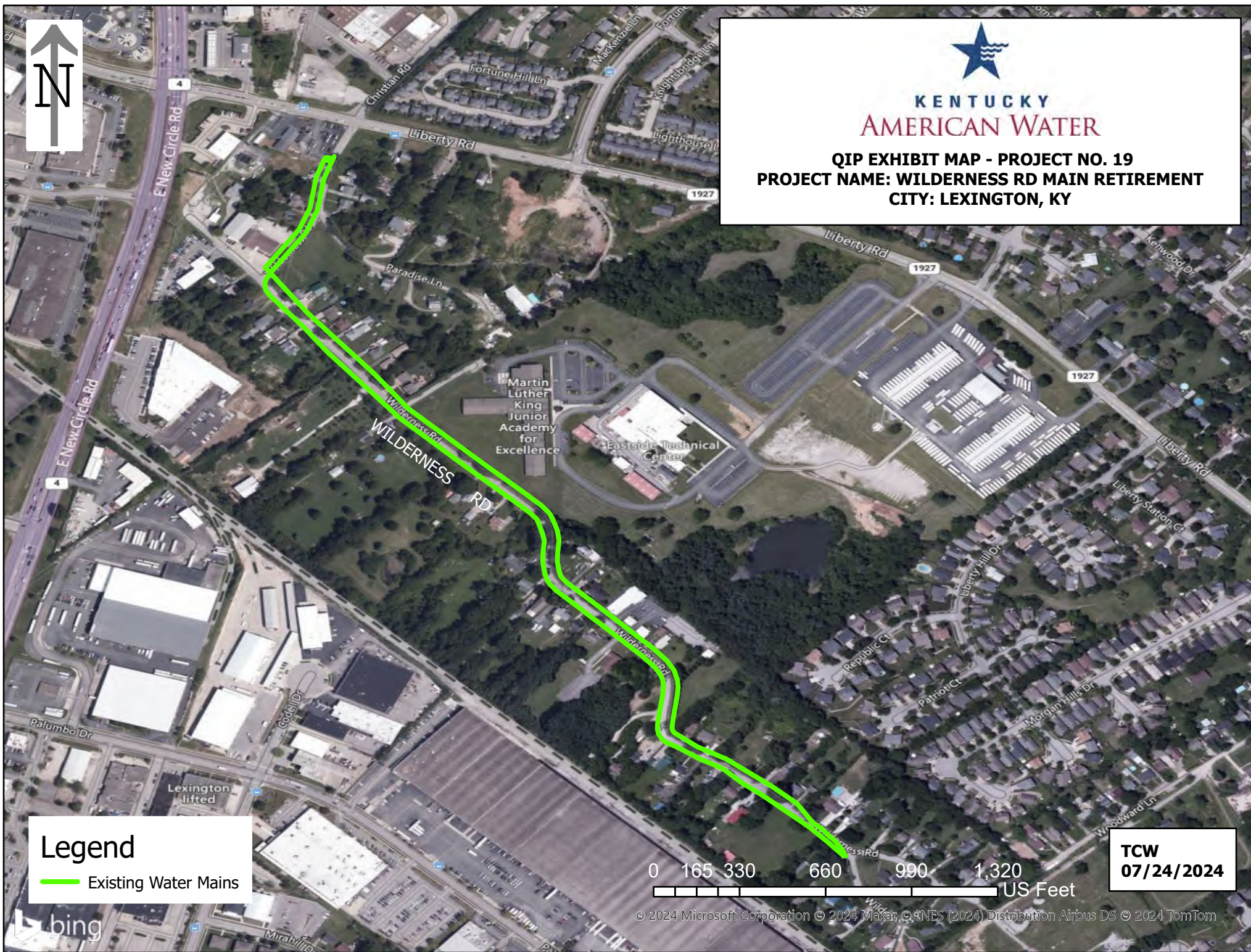






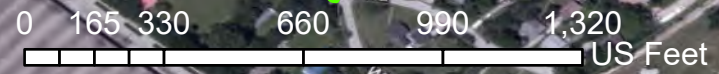
KENTUCKY  
AMERICAN WATER

**QIP EXHIBIT MAP - PROJECT NO. 19**  
**PROJECT NAME: WILDERNESS RD MAIN RETIREMENT**  
**CITY: LEXINGTON, KY**



**Legend**

 Existing Water Mains



**TCW**  
**07/24/2024**






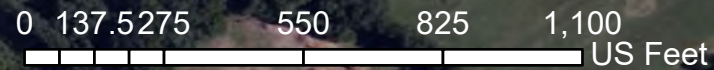
KENTUCKY  
AMERICAN WATER

**QIP EXHIBIT MAP - PROJECT NO. 20**  
**PROJECT NAME: UTTINGER LN MAIN REPLACEMENT**  
**CITY: LEXINGTON, KY**

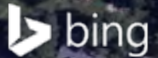


**Legend**

 Existing Water Mains



**TCW**  
**07/24/2024**








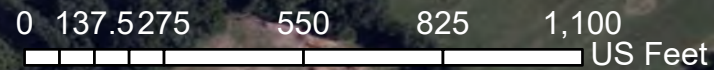
KENTUCKY  
AMERICAN WATER

**QIP EXHIBIT MAP - PROJECT NO. 21**  
**PROJECT NAME: COLUMBUS LN MAIN REPLACEMENT**  
**CITY: LEXINGTON, KY**

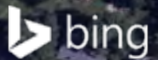


**Legend**

 Existing Water Mains



**TCW**  
**07/24/2024**







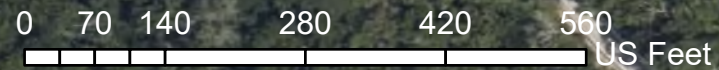
KENTUCKY  
AMERICAN WATER

QIP EXHIBIT MAP - PROJECT NO. 22  
PROJECT NAME: WILLIAMS LN MAIN REPLACEMENT  
CITY: LEXINGTON, KY

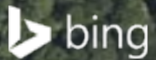


Legend

Existing Water Mains



TCW  
07/24/2024



Kentucky






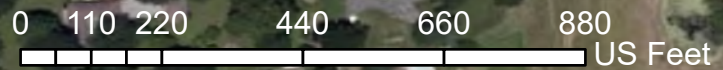
KENTUCKY  
AMERICAN WATER

QIP EXHIBIT MAP - PROJECT NO. 23  
PROJECT NAME: ADENA LN MAIN REPLACEMENT  
CITY: LEXINGTON, KY



**Legend**

 Existing Water Mains



TCW  
07/24/2024







Hurricane Hall Rd

Georgetown Rd



KENTUCKY  
AMERICAN WATER

**QIP EXHIBIT MAP - PROJECT NO. 24**  
**PROJECT NAME: GEORGETOWN RD MAIN RETIREMENT**  
**CITY: LEXINGTON, KY**

118




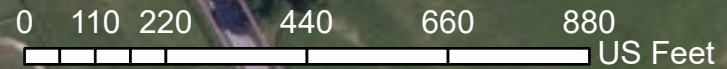
25

Georgetown Rd

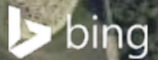
25

**Legend**

 Existing Water Mains



**TCW**  
**07/24/2024**








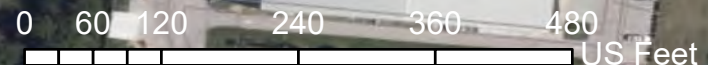
KENTUCKY  
AMERICAN WATER

QIP EXHIBIT MAP - PROJECT NO. 25  
PROJECT NAME: DEVINE AVE MAIN REPLACEMENT  
CITY: LEXINGTON, KY



**Legend**

 Existing Water Mains



**TCW**  
**07/24/2024**



Nancy






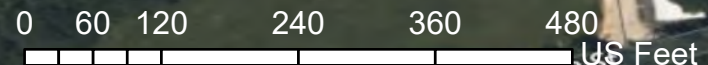
KENTUCKY  
AMERICAN WATER

QIP EXHIBIT MAP - PROJECT NO. 26  
PROJECT NAME: JOHNSON ALLEY MAIN REPLACEMENT  
CITY: SADIEVILLE, KY



**Legend**

 Existing Water Mains



**TCW**  
**07/24/2024**








KENTUCKY  
AMERICAN WATER

**QIP EXHIBIT MAP - PROJECT NO. 27**  
**PROJECT NAME: PRESTON AVE MAIN REPLACEMENT**  
**CITY: LEXINGTON, KY**



**Legend**

 Existing Water Mains



**TCW**  
**07/24/2024**







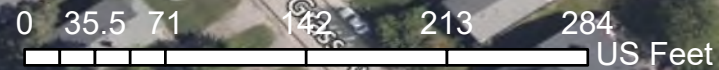
KENTUCKY  
AMERICAN WATER

**QIP EXHIBIT MAP - PROJECT NO. 28**  
**PROJECT NAME: WILLOWLAWN AVE MAIN REPLACEMENT**  
**CITY: LEXINGTON, KY**



**Legend**

 Existing Water Mains



**TCW**  
**07/24/2024**






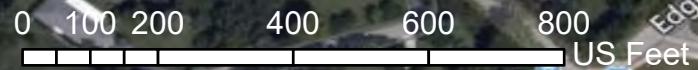
KENTUCKY  
AMERICAN WATER

QIP EXHIBIT MAP - PROJECT NO. 29  
PROJECT NAME: WHISPERING WOOD LN  
MAIN REPLACEMENT  
CITY: LEXINGTON, KY

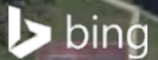


Legend

 Existing Water Mains



TCW  
07/24/2024



Bryan  
Senior H  
School






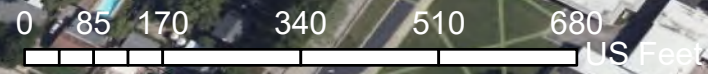
KENTUCKY  
AMERICAN WATER

**QIP EXHIBIT MAP - PROJECT NO. 30**  
**PROJECT NAME: MCCUBBING DR MAIN REPLACEMENT**  
**CITY: LEXINGTON, KY**



**Legend**

 Existing Water Mains



**TCW**  
**07/24/2024**








KENTUCKY  
AMERICAN WATER

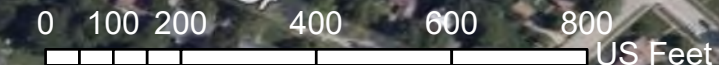
**QIP EXHIBIT MAP - PROJECT NO. 31**  
**PROJECT NAME: LONGVIEW DR MAIN REPLACEMENT**  
**CITY: LEXINGTON, KY**



**Legend**

 Existing Water Mains

**TCW**  
**07/29/2024**







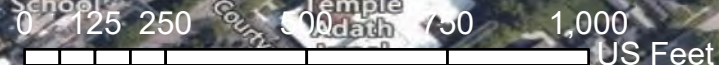
KENTUCKY  
AMERICAN WATER

QIP EXHIBIT MAP - PROJECT NO. 32  
PROJECT NAME: WALTON AVE MAIN REPLACEMENT  
CITY: LEXINGTON, KY

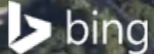


**Legend**

 Existing Water Mains



**TCW**  
**07/29/2024**









**KENTUCKY  
AMERICAN WATER**

**QIP EXHIBIT MAP - PROJECT NO. 33**  
**PROJECT NAME: LEXINGTON AVE MAIN REPLACEMENT**  
**CITY: LEXINGTON, KY**



**Legend**

 Existing Water Mains

**TCW**  
**07/29/2024**






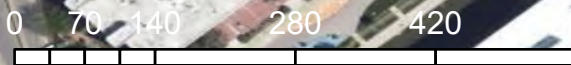

**KENTUCKY  
AMERICAN WATER**

**QIP EXHIBIT MAP - PROJECT NO. 34**  
**PROJECT NAME: WASHINGTON AVE MAIN REPLACEMENT**  
**CITY: LEXINGTON, KY**



**Legend**

 Existing Water Mains



**TCW**  
**07/29/2024**






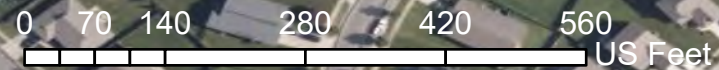
KENTUCKY  
AMERICAN WATER

**QIP EXHIBIT MAP - PROJECT NO. 35**  
**PROJECT NAME: HAWKINS AVE MAIN REPLACEMENT**  
**CITY: LEXINGTON, KY**

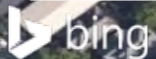


**Legend**

 Existing Water Mains



**TCW**  
**07/29/2024**








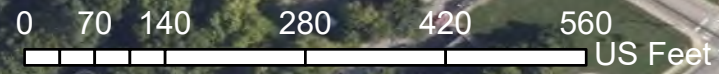
KENTUCKY  
AMERICAN WATER

**QIP EXHIBIT MAP - PROJECT NO. 36**  
**PROJECT NAME: WILGUS AVE MAIN REPLACEMENT**  
**CITY: LEXINGTON, KY**



**Legend**

 Existing Water Mains



**TCW**  
**07/29/2024**








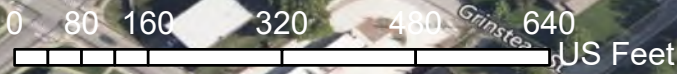
KENTUCKY  
AMERICAN WATER

**QIP EXHIBIT MAP - PROJECT NO. 37**  
**PROJECT NAME: RACE ST MAIN REPLACEMENT**  
**CITY: LEXINGTON, KY**



**Legend**

 Existing Water Mains



**TCW**  
**07/29/2024**








KENTUCKY  
AMERICAN WATER

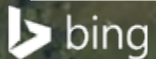
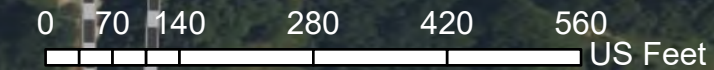
QIP EXHIBIT MAP - PROJECT NO. 38  
PROJECT NAME: COLLEGE ST MAIN REPLACEMENT  
CITY: SADIEVILLE, KY



**Legend**

 Existing Water Mains

TCW  
07/29/2024







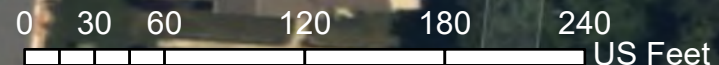
KENTUCKY  
AMERICAN WATER

QIP EXHIBIT MAP - PROJECT NO. 39  
PROJECT NAME: JONES HILL ST MAIN REPLACEMENT  
CITY: OWENTON, KY

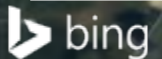


**Legend**

 Existing Water Mains



TCW  
07/29/2024








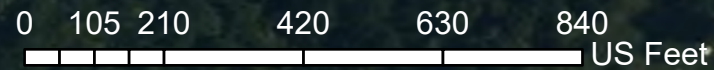
KENTUCKY  
AMERICAN WATER

**QIP EXHIBIT MAP - PROJECT NO. 40**  
**PROJECT NAME: SUNSET DR MAIN REPLACEMENT**  
**CITY: OWENTON, KY**

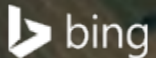


**Legend**

 Existing Water Mains



**TCW**  
**08/08/2024**








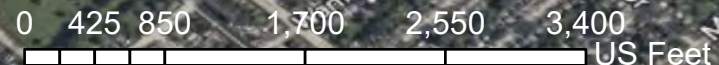
**KENTUCKY  
AMERICAN WATER**

**QIP EXHIBIT MAP - PROJECT NO. 41  
PROJECT NAME: N LIMESTONE MAIN REPLACEMENT  
(SIXTH ST TO E NEW CIRCLE RD)  
CITY: LEXINGTON, KY**



**Legend**

 Existing Water Mains



**TCW  
08/07/2024**





KENTUCKY  
AMERICAN WATER

QIP EXHIBIT MAP - PROJECT NO. 42  
PROJECT NAME: FONTAINE RD MAIN REPLACEMENT  
CITY: LEXINGTON, KY

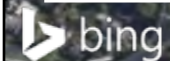
ASHLAND PARK

ASHLAND

Legend

Existing Water Mains

TCW  
07/29/2024







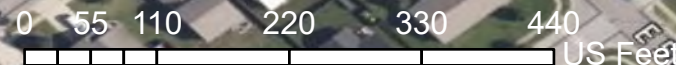
KENTUCKY  
AMERICAN WATER

**QIP EXHIBIT MAP - PROJECT NO. 43**  
**PROJECT NAME: E FIFTH ST MAIN REPLACEMENT**  
**CITY: LEXINGTON, KY**



**Legend**

 Existing Water Mains



**TCW**  
**08/07/2024**









**KENTUCKY  
AMERICAN WATER**

**QIP EXHIBIT MAP - PROJECT NO. 44  
PROJECT NAME: CORRAL ST MAIN REPLACEMENT  
CITY: LEXINGTON, KY**

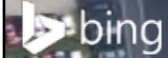


**Legend**

 Existing Water Mains



**TCW  
08/07/2024**








KENTUCKY  
AMERICAN WATER

QIP EXHIBIT MAP - PROJECT NO. 45  
PROJECT NAME: PINE ST - LAWRENCE ST  
MAIN REPLACEMENT  
CITY: LEXINGTON, KY

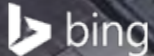


**Legend**

 Existing Water Mains



**TCW**  
**08/07/2024**

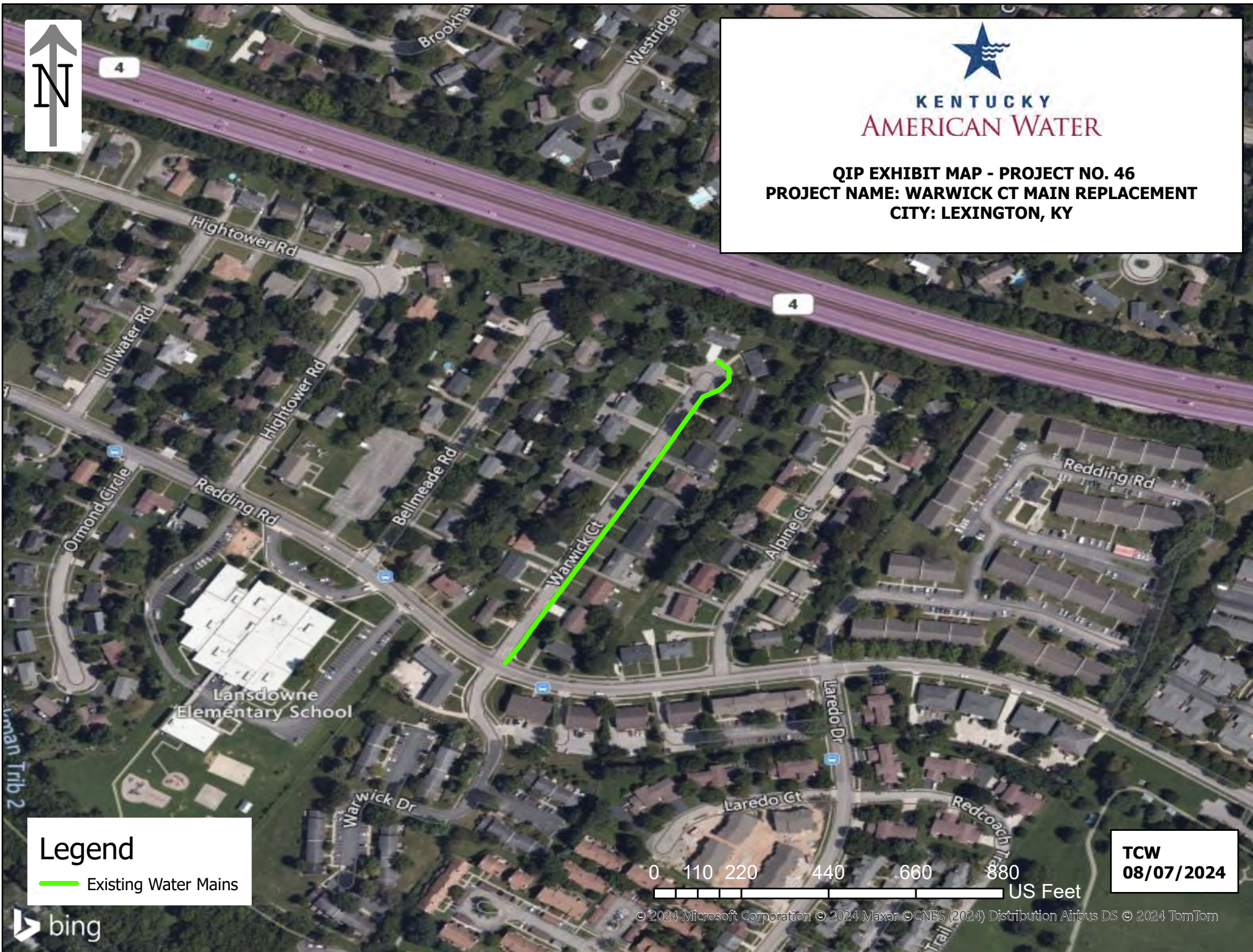







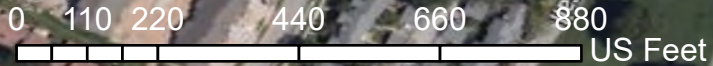

**KENTUCKY  
AMERICAN WATER**

**QIP EXHIBIT MAP - PROJECT NO. 46  
PROJECT NAME: WARWICK CT MAIN REPLACEMENT  
CITY: LEXINGTON, KY**

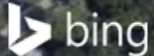


**Legend**

 Existing Water Mains



**TCW  
08/07/2024**

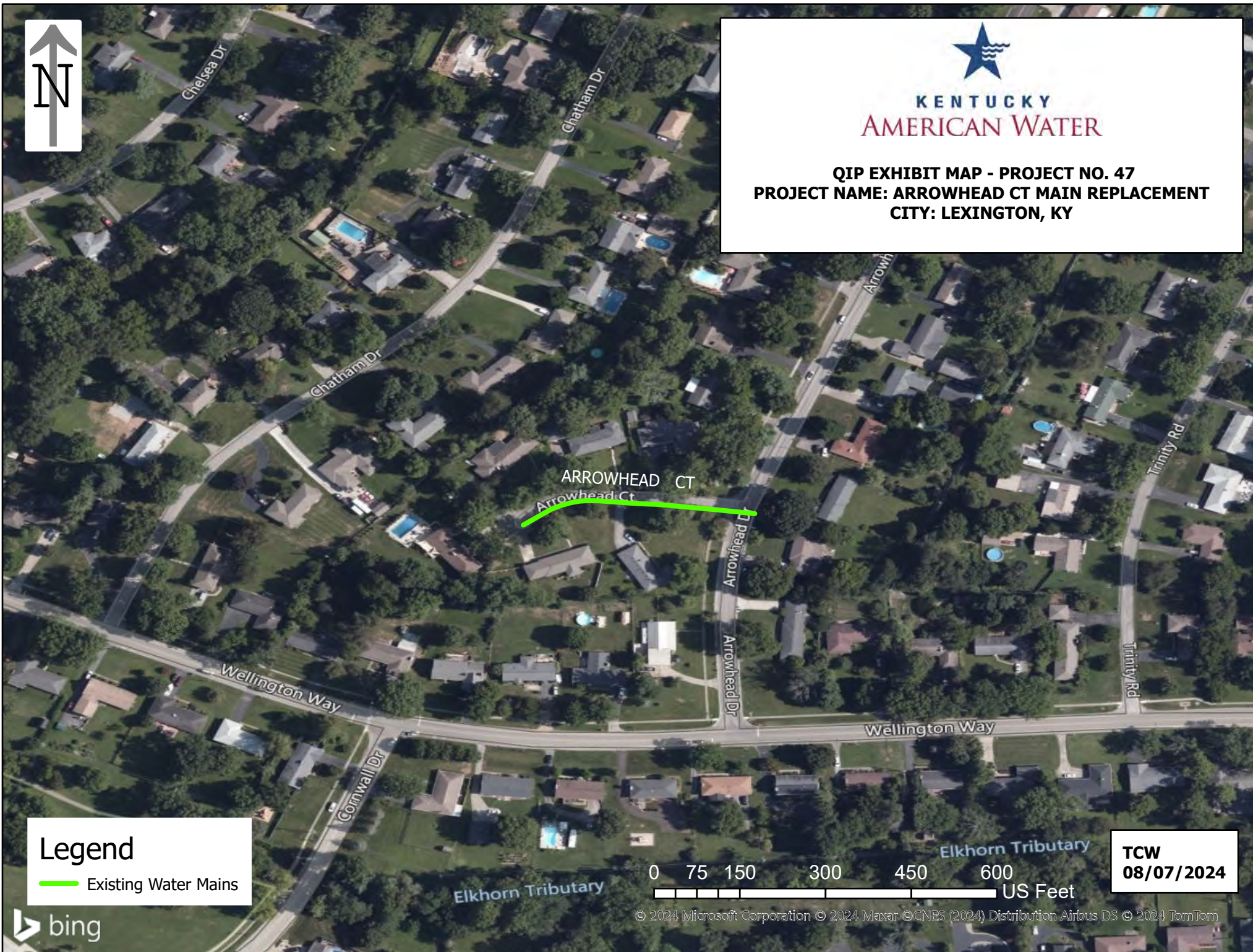







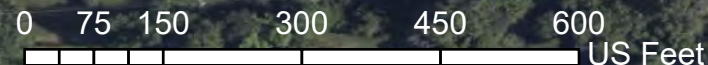
KENTUCKY  
AMERICAN WATER

**QIP EXHIBIT MAP - PROJECT NO. 47**  
**PROJECT NAME: ARROWHEAD CT MAIN REPLACEMENT**  
**CITY: LEXINGTON, KY**

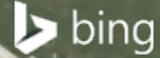


**Legend**

 Existing Water Mains



**TCW**  
**08/07/2024**








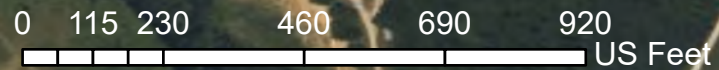
KENTUCKY  
AMERICAN WATER

QIP EXHIBIT MAP - PROJECT NO. 48  
PROJECT NAME: PIKE ST MAIN REPLACEMENT  
CITY: SADIEVILLE, KY

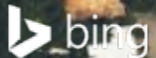


**Legend**


 Existing Water Mains



TCW  
07/29/2024









**KENTUCKY  
AMERICAN WATER**

**QIP EXHIBIT MAP - PROJECT NO. 49  
PROJECT NAME: W FOURTH ST MAIN REPLACEMENT  
CITY: MILLERSBURG, KY**

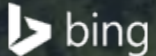


**Legend**

 Existing Water Mains



**TCW  
07/29/2024**





**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** New Circle Rd ( Bore for Opportunity Way)**WEEKS:** 3

UNITS	UNIT	DESCRIPTION	UNIT COST	ESTIMATED COST
<b>A. MATERIALS</b>				
0	LF	6" D.I.	40.00	0.00
0	LF	8" D.I.	50.00	0.00
0	LF	10" D.I.	60.00	0.00
150	LF	12" D.I.	85.00	12,750.00
0	EA	6" MJ GATE VALVE	550.00	0.00
0	EA	8" MJ GATE VALVE	700.00	0.00
0	EA	10" MJ GATE VALVE	1,050.00	0.00
0	EA	12" MJ GATE VALVE	1,300.00	0.00
0	EA	8" TAPPING VALVE/SLEEVE	1,100.00	0.00
0	EA	10" TAPPING VALVE/SLEEVE	900.00	0.00
0	EA	12" TAPPING VALVE/SLEEVE	1,300.00	0.00
0	EA	16" TAPPING VALVE/SLEEVE	1,400.00	0.00
0	EA	SHORT SERVICE (NON-LEAD)	250.00	0.00
0	EA	LONG SERVICE (NON-LEAD)	325.00	0.00
0	EA	SHORT SERVICE (LEAD)	400.00	0.00
0	EA	LONG SERVICE (LEAD)	500.00	0.00
0	EA	HYDRANT ASSEMBLY	2,500.00	0.00
0	EA	BLOWOFF ASSEMBLY	400.00	0.00
0	EA	LINESTOP	7,000.00	0.00
<b>SUBTOTAL - MATERIALS</b>				<b>12,750.00</b>



UNITS	UNIT	DESCRIPTION	UNIT COST	ESTIMATED COST
<b>B. INSTALLATION</b>				
1	LS	Trench Mobilization and Closeout	5,630.00	5,630.00
1	LS	Traffic Control	6,000.00	6,000.00
0	LF	Install Water Main: 4 inch	0.00	0.00
0	LF	Install Water Main: 6 inch	0.00	0.00
0	LF	Install Water Main: 8 inch	0.00	0.00
150	LF	Install Water Main: 12 inch	600.00	90,000.00
0	LF	Install Water Main: 16 inch	0.00	0.00
0	EA	Wet Tap ≤ 8 inch	0.00	0.00
0	EA	Wet Tap ≥ 10 inch	0.00	0.00
2	EA	Shut Down & Tie-In	4,737.00	9,474.00
2	EA	Cut & Cap Existing Water Main	3,529.00	7,058.00
0	EA	Line Stop (Excavation Only)	0.00	0.00
0	EA	4in Gate Valve and Box	0.00	0.00
0	EA	6in Gate Valve and Box	0.00	0.00
0	EA	8in Gate Valve and Box	0.00	0.00
0	EA	Blowoff Assembly	0.00	0.00
0	EA	Fire Hydrant Assembly	0.00	0.00
0	EA	Remove/Relocate Existing Hydrant	0.00	0.00
0	EA	Relocate Existing Meter	0.00	0.00
0	EA	New Long Service	0.00	0.00
0	EA	New Short Service	0.00	0.00
<b>SUBTOTAL - INSTALLATION</b>				<b>118,162.00</b>

<b>C. RESTORATION</b>				
0	SF	Curb-To-Curb Asphalt Paving	6.60	0.00
0	SF	Concrete Cap	10.00	0.00
<b>SUBTOTAL - RESTORATION</b>				<b>0.00</b>

<b>D. DESIGN &amp; ADMINISTRATION</b>				
36	HRS	CONSTRUCTION OBSERVATIONS	65.00	2,340.00
	%	ENGINEERING FEES	15%	17,724.30
	%	AFUDC	0.25%	327.00
1	LS	LFUCG Permit Fee	250.00	250.00
<b>SUBTOTAL - DESIGN &amp; ADMINISTRATION</b>				<b>20,641.30</b>

**TOTAL ESTIMATED COST****\$151,553.30**



**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** N. Broadway Park (Limestone to Broadway)**WEEKS:** 5

UNITS	UNIT	DESCRIPTION	UNIT COST	ESTIMATED COST
<b>A. MATERIALS</b>				
20	LF	6" D.I.	40.00	800.00
1,000	LF	8" D.I.	50.00	50,000.00
0	LF	10" D.I.	60.00	0.00
0	LF	12" D.I.	85.00	0.00
0	EA	6" MJ GATE VALVE	550.00	0.00
2	EA	8" MJ GATE VALVE	700.00	1,400.00
0	EA	10" MJ GATE VALVE	1,050.00	0.00
0	EA	12" MJ GATE VALVE	1,300.00	0.00
0	EA	8" TAPPING VALVE/SLEEVE	1,100.00	0.00
0	EA	10" TAPPING VALVE/SLEEVE	900.00	0.00
0	EA	12" TAPPING VALVE/SLEEVE	1,300.00	0.00
0	EA	16" TAPPING VALVE/SLEEVE	1,400.00	0.00
6	EA	SHORT SERVICE (NON-LEAD)	250.00	1,500.00
6	EA	LONG SERVICE (NON-LEAD)	325.00	1,950.00
0	EA	SHORT SERVICE (LEAD)	400.00	0.00
0	EA	LONG SERVICE (LEAD)	500.00	0.00
1	EA	HYDRANT ASSEMBLY	2,500.00	2,500.00
0	EA	BLOWOFF ASSEMBLY	400.00	0.00
0	EA	LINESTOP	7,000.00	0.00
<b>SUBTOTAL - MATERIALS</b>				<b>58,150.00</b>

<b>B. INSTALLATION</b>				
1	LS	Trench Mobilization and Closeout	8,770.00	8,770.00
1	LS	Traffic Control	6,000.00	6,000.00
0	LF	Install Water Main: 4 inch	0.00	0.00
20	LF	Install Water Main: 6 inch	131.00	2,620.00
1,000	LF	Install Water Main: 8 inch	107.00	107,000.00
0	LF	Install Water Main: 12 inch	0.00	0.00
0	LF	Install Water Main: 16 inch	0.00	0.00
0	EA	Wet Tap ≤ 8 inch	0.00	0.00
0	EA	Wet Tap ≥ 10 inch	0.00	0.00
2	EA	Shut Down & Tie-In	4,737.00	9,474.00
4	EA	Cut & Cap Existing Water Main	3,529.00	14,116.00
0	EA	Line Stop (Excavation Only)	0.00	0.00
0	EA	4in Gate Valve and Box	0.00	0.00
0	EA	6in Gate Valve and Box	0.00	0.00
2	EA	8in Gate Valve and Box	367.00	734.00
0	EA	Blowoff Assembly	0.00	0.00
1	EA	Fire Hydrant Assembly	1,967.00	1,967.00
1	EA	Remove/Relocate Existing Hydrant	544.00	544.00
0	EA	Relocate Existing Meter	0.00	0.00



**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** N. Broadway Park (Limestone to Broadway)**WEEKS:** 5

UNITS	UNIT	DESCRIPTION	UNIT COST	ESTIMATED COST
6	EA	New Long Service	3,298.00	19,788.00
6	EA	New Short Service	2,168.00	13,008.00
<b>SUBTOTAL - INSTALLATION</b>				<b>184,021.00</b>

<b>C. RESTORATION</b>				
22,000	SF	Curb-To-Curb Asphalt Paving	6.60	145,200.00
4,000	SF	Concrete Cap	10.00	40,000.00
<b>SUBTOTAL - RESTORATION</b>				<b>185,200.00</b>

<b>D. DESIGN &amp; ADMINISTRATION</b>				
60	HRS	CONSTRUCTION OBSERVATIONS	65.00	3,900.00
	%	ENGINEERING FEES	15%	55,383.15
	%	AFUDC	0.25%	605.00
1	LS	LFUCG Permit Fee	250.00	250.00
<b>SUBTOTAL - DESIGN &amp; ADMINISTRATION</b>				<b>60,138.15</b>

**TOTAL ESTIMATED COST****\$487,509.00**



**KENTUCKY AMERICAN WATER**  
**ESTIMATE FOR:** Warnock Street

**DATE:** 16-May-24  
**WEEKS:** 4

UNITS	UNIT		UNIT COST	ESTIMATED COST
<b>A. MATERIALS</b>				
20	LF	6" D.I.	40.00	800.00
550	LF	8" D.I.	50.00	27,500.00
0	LF	10" D.I.	60.00	0.00
0	LF	12" D.I.	85.00	0.00
0	EA	6" MJ GATE VALVE	550.00	0.00
1	EA	8" MJ GATE VALVE	700.00	700.00
0	EA	10" MJ GATE VALVE	1,050.00	0.00
0	EA	12" MJ GATE VALVE	1,300.00	0.00
0	EA	8" TAPPING VALVE/SLEEVE	1,100.00	0.00
0	EA	10" TAPPING VALVE/SLEEVE	900.00	0.00
0	EA	12" TAPPING VALVE/SLEEVE	1,300.00	0.00
0	EA	16" TAPPING VALVE/SLEEVE	1,400.00	0.00
6	EA	SHORT SERVICE (NON-LEAD)	250.00	1,500.00
6	EA	LONG SERVICE (NON-LEAD)	325.00	1,950.00
0	EA	SHORT SERVICE (LEAD)	400.00	0.00
0	EA	LONG SERVICE (LEAD)	500.00	0.00
1	EA	HYDRANT ASSEMBLY	2,500.00	2,500.00
0	EA	BLOWOFF ASSEMBLY	400.00	0.00
0	EA	LINESTOP	7,000.00	0.00
<b>SUBTOTAL - MATERIALS</b>				<b>34,950.00</b>

<b>B. INSTALLATION</b>				
1	LS	Trench Mobilization and Closeout	5,630.00	5,630.00
1	LS	Traffic Control	3,640.00	3,640.00
0	LF	Install Water Main: 4 inch	0.00	0.00
20	LF	Install Water Main: 6 inch	131.00	2,620.00
550	LF	Install Water Main: 8 inch	107.00	58,850.00
0	LF	Install Water Main: 12 inch	0.00	0.00
0	LF	Install Water Main: 16 inch	0.00	0.00
0	EA	Wet Tap ≤ 8 inch	0.00	0.00
0	EA	Wet Tap ≥ 10 inch	0.00	0.00
1	EA	Shut Down & Tie-In	4,737.00	4,737.00
2	EA	Cut & Cap Existing Water Main	3,529.00	7,058.00
0	EA	Line Stop (Excavation Only)	0.00	0.00
0	EA	4in Gate Valve and Box	0.00	0.00
0	EA	6in Gate Valve and Box	0.00	0.00
1	EA	8in Gate Valve and Box	367.00	367.00
0	EA	Blowoff Assembly	0.00	0.00
1	EA	Fire Hydrant Assembly	1,967.00	1,967.00
1	EA	Remove/Relocate Existing Hydrant	544.00	544.00
0	EA	Relocate Existing Meter	0.00	0.00



**KENTUCKY AMERICAN WATER**  
**ESTIMATE FOR:** Warnock Street

**DATE:** 16-May-24  
**WEEKS:** 4

UNITS	UNIT		UNIT COST	ESTIMATED COST
6	EA	New Long Service	3,298.00	19,788.00
6	EA	New Short Service	2,168.00	13,008.00
<b>SUBTOTAL - INSTALLATION</b>				<b>118,209.00</b>

<b>C. RESTORATION</b>				
12,100	SF	Curb-To-Curb Asphalt Paving	2.00	24,200.00
2,200	SF	Concrete Cap	10.00	22,000.00
<b>SUBTOTAL - RESTORATION</b>				<b>46,200.00</b>

<b>D. DESIGN &amp; ADMINISTRATION</b>				
48	HRS	CONSTRUCTION OBSERVATIONS	65.00	3,120.00
	%	ENGINEERING FEES	15%	24,661.35
	%	AFUDC	0.25%	296.00
1	LS	LFUCG Permit Fee	250.00	250.00
<b>SUBTOTAL - DESIGN &amp; ADMINISTRATION</b>				<b>28,327.35</b>

**TOTAL ESTIMATED COST**

**\$227,686.00**



**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** Kastle Road (Tremont to Sunset)**WEEKS:** 4

UNITS	UNIT		UNIT COST	ESTIMATED COST
<b>A. MATERIALS</b>				
20	LF	6" D.I.	40.00	800.00
650	LF	8" D.I.	50.00	32,500.00
0	LF	10" D.I.	60.00	0.00
0	LF	12" D.I.	85.00	0.00
0	EA	6" MJ GATE VALVE	550.00	0.00
1	EA	8" MJ GATE VALVE	700.00	700.00
0	EA	10" MJ GATE VALVE	1,050.00	0.00
0	EA	12" MJ GATE VALVE	1,300.00	0.00
0	EA	8" TAPPING VALVE/SLEEVE	1,100.00	0.00
0	EA	10" TAPPING VALVE/SLEEVE	900.00	0.00
0	EA	12" TAPPING VALVE/SLEEVE	1,300.00	0.00
0	EA	16" TAPPING VALVE/SLEEVE	1,400.00	0.00
9	EA	SHORT SERVICE (NON-LEAD)	250.00	2,250.00
9	EA	LONG SERVICE (NON-LEAD)	325.00	2,925.00
0	EA	SHORT SERVICE (LEAD)	400.00	0.00
0	EA	LONG SERVICE (LEAD)	500.00	0.00
1	EA	HYDRANT ASSEMBLY	2,500.00	2,500.00
0	EA	BLOWOFF ASSEMBLY	400.00	0.00
0	EA	LINESTOP	7,000.00	0.00
<b>SUBTOTAL - MATERIALS</b>				<b>41,675.00</b>

<b>B. INSTALLATION</b>				
1	LS	Trench Mobilization and Closeout	7,688.10	7,688.10
1	LS	Traffic Control	4,000.00	4,000.00
0	LF	Install Water Main: 4 inch	0.00	0.00
20	LF	Install Water Main: 6 inch	130.00	2,600.00
650	LF	Install Water Main: 8 inch	110.00	71,500.00
0	LF	Install Water Main: 12 inch	0.00	0.00
0	LF	Install Water Main: 16 inch	0.00	0.00
0	EA	Wet Tap ≤ 8 inch	0.00	0.00
0	EA	Wet Tap ≥ 10 inch	0.00	0.00
2	EA	Shut Down & Tie-In	4,737.00	9,474.00
4	EA	Cut & Cap Existing Water Main	3,529.00	14,116.00
0	EA	Line Stop (Excavation Only)	0.00	0.00
0	EA	4in Gate Valve and Box	0.00	0.00
0	EA	6in Gate Valve and Box	0.00	0.00
1	EA	8in Gate Valve and Box	367.00	367.00
0	EA	Blowoff Assembly	0.00	0.00
1	EA	Fire Hydrant Assembly	1,967.00	1,967.00
1	EA	Remove/Relocate Existing Hydrant	544.00	544.00
0	EA	Relocate Existing Meter	0.00	0.00



**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** Kastle Road (Tremont to Sunset)**WEEKS:** 4

UNITS	UNIT		UNIT COST	ESTIMATED COST
9	EA	New Long Service	3,298.00	29,682.00
9	EA	New Short Service	2,168.00	19,512.00
<b>SUBTOTAL - INSTALLATION</b>				<b>161,450.10</b>

<b>C. RESTORATION</b>				
14,300	SF	Curb-To-Curb Asphalt Paving	2.00	28,600.00
2,600	SF	Concrete Cap	10.00	26,000.00
<b>SUBTOTAL - RESTORATION</b>				<b>54,600.00</b>

<b>D. DESIGN &amp; ADMINISTRATION</b>				
48	HRS	CONSTRUCTION OBSERVATIONS	65.00	3,120.00
	%	ENGINEERING FEES	15%	32,407.52
	%	AFUDC	0.25%	508.00
1	LS	LFUCG Permit Fee	250.00	250.00
<b>SUBTOTAL - DESIGN &amp; ADMINISTRATION</b>				<b>36,285.52</b>

**TOTAL ESTIMATED COST****\$294,011.00**



**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** Melrose Avenue**WEEKS:** 6

UNITS	UNIT		UNIT COST	ESTIMATED COST
<b>A. MATERIALS</b>				
80	LF	6" D.I.	40.00	3,200.00
1,350	LF	8" D.I.	50.00	67,500.00
0	LF	10" D.I.	60.00	0.00
0	LF	12" D.I.	85.00	0.00
0	EA	6" MJ GATE VALVE	550.00	0.00
3	EA	8" MJ GATE VALVE	700.00	2,100.00
0	EA	10" MJ GATE VALVE	1,050.00	0.00
0	EA	12" MJ GATE VALVE	1,300.00	0.00
0	EA	8" TAPPING VALVE/SLEEVE	1,100.00	0.00
0	EA	10" TAPPING VALVE/SLEEVE	900.00	0.00
0	EA	12" TAPPING VALVE/SLEEVE	1,300.00	0.00
0	EA	16" TAPPING VALVE/SLEEVE	1,400.00	0.00
15	EA	SHORT SERVICE (NON-LEAD)	250.00	3,750.00
15	EA	LONG SERVICE (NON-LEAD)	325.00	4,875.00
0	EA	SHORT SERVICE (LEAD)	400.00	0.00
0	EA	LONG SERVICE (LEAD)	500.00	0.00
4	EA	HYDRANT ASSEMBLY	2,500.00	10,000.00
0	EA	BLOWOFF ASSEMBLY	400.00	0.00
0	EA	LINESTOP	7,000.00	0.00
<b>SUBTOTAL - MATERIALS</b>				<b>91,425.00</b>

<b>B. INSTALLATION</b>				
1	LS	Trench Mobilization and Closeout	14,521.00	14,521.00
1	LS	Traffic Control	3,000.00	3,000.00
0	LF	Install Water Main: 4 inch	0.00	0.00
80	LF	Install Water Main: 6 inch	130.00	10,400.00
1,350	LF	Install Water Main: 8 inch	110.00	148,500.00
0	LF	Install Water Main: 12 inch	0.00	0.00
0	LF	Install Water Main: 16 inch	0.00	0.00
0	EA	Wet Tap ≤ 8 inch	0.00	0.00
0	EA	Wet Tap ≥ 10 inch	0.00	0.00
3	EA	Shut Down & Tie-In	4,737.00	14,211.00
6	EA	Cut & Cap Existing Water Main	3,529.00	21,174.00
0	EA	Line Stop (Excavation Only)	0.00	0.00
0	EA	4in Gate Valve and Box	0.00	0.00
0	EA	6in Gate Valve and Box	0.00	0.00
3	EA	8in Gate Valve and Box	367.00	1,101.00
0	EA	Blowoff Assembly	0.00	0.00
4	EA	Fire Hydrant Assembly	1,967.00	7,868.00
4	EA	Remove/Relocate Existing Hydrant	544.00	2,176.00
0	EA	Relocate Existing Meter	0.00	0.00



**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** Melrose Avenue**WEEKS:** 6

UNITS	UNIT		UNIT COST	ESTIMATED COST
15	EA	New Long Service	3,298.00	49,470.00
15	EA	New Short Service	2,168.00	32,520.00
<b>SUBTOTAL - INSTALLATION</b>				<b>304,941.00</b>

<b>C. RESTORATION</b>				
29,700	SF	Curb-To-Curb Asphalt Paving	2.00	59,400.00
5,400	SF	Concrete Cap	10.00	54,000.00
<b>SUBTOTAL - RESTORATION</b>				<b>113,400.00</b>

<b>D. DESIGN &amp; ADMINISTRATION</b>				
72	HRS	CONSTRUCTION OBSERVATIONS	65.00	4,680.00
	%	ENGINEERING FEES	15%	62,751.15
	%	AFUDC	0.25%	991.00
1	LS	LFUCG Permit Fee	250.00	250.00
<b>SUBTOTAL - DESIGN &amp; ADMINISTRATION</b>				<b>68,672.15</b>

**TOTAL ESTIMATED COST****\$578,438.00**



**KENTUCKY AMERICAN WATER**  
**ESTIMATE FOR:** Shawnee Place

**DATE:** 16-May-24  
**WEEKS:** 5

UNITS	UNIT		UNIT COST	ESTIMATED COST
<b>A. MATERIALS</b>				
20	LF	6" D.I.	40.00	800.00
850	LF	8" D.I.	50.00	42,500.00
0	LF	10" D.I.	60.00	0.00
0	LF	12" D.I.	85.00	0.00
0	EA	6" MJ GATE VALVE	550.00	0.00
2	EA	8" MJ GATE VALVE	700.00	1,400.00
0	EA	10" MJ GATE VALVE	1,050.00	0.00
0	EA	12" MJ GATE VALVE	1,300.00	0.00
0	EA	8" TAPPING VALVE/SLEEVE	1,100.00	0.00
0	EA	10" TAPPING VALVE/SLEEVE	900.00	0.00
0	EA	12" TAPPING VALVE/SLEEVE	1,300.00	0.00
0	EA	16" TAPPING VALVE/SLEEVE	1,400.00	0.00
14	EA	SHORT SERVICE (NON-LEAD)	250.00	3,500.00
14	EA	LONG SERVICE (NON-LEAD)	325.00	4,550.00
0	EA	SHORT SERVICE (LEAD)	400.00	0.00
0	EA	LONG SERVICE (LEAD)	500.00	0.00
1	EA	HYDRANT ASSEMBLY	2,500.00	2,500.00
1	EA	BLOWOFF ASSEMBLY	400.00	400.00
0	EA	LINESTOP	7,000.00	0.00
<b>SUBTOTAL - MATERIALS</b>				<b>55,650.00</b>

<b>B. INSTALLATION</b>				
1	LS	Trench Mobilization and Closeout	10,760.00	10,760.00
1	LS	Traffic Control	10,000.00	10,000.00
0	LF	Install Water Main: 4 inch	0.00	0.00
20	LF	Install Water Main: 6 inch	131.00	2,620.00
850	LF	Install Water Main: 8 inch	130.00	110,500.00
0	LF	Install Water Main: 12 inch	0.00	0.00
0	LF	Install Water Main: 16 inch	0.00	0.00
0	EA	Wet Tap ≤ 8 inch	0.00	0.00
0	EA	Wet Tap ≥ 10 inch	0.00	0.00
1	EA	Shut Down & Tie-In	4,737.00	4,737.00
1	EA	Cut & Cap Existing Water Main	3,529.00	3,529.00
0	EA	Line Stop (Excavation Only)	0.00	0.00
0	EA	4in Gate Valve and Box	0.00	0.00
0	EA	6in Gate Valve and Box	0.00	0.00
2	EA	8in Gate Valve and Box	367.00	734.00
1	EA	Blowoff Assembly	990.00	990.00
1	EA	Fire Hydrant Assembly	1,967.00	1,967.00
1	EA	Remove/Relocate Existing Hydrant	544.00	544.00
2	EA	Relocate Existing Meter	1,515.00	3,030.00



**KENTUCKY AMERICAN WATER**  
**ESTIMATE FOR:** Shawnee Place

**DATE:** 16-May-24  
**WEEKS:** 5

UNITS	UNIT		UNIT COST	ESTIMATED COST
14	EA	New Long Service	3,298.00	46,172.00
14	EA	New Short Service	2,168.00	30,352.00
<b>SUBTOTAL - INSTALLATION</b>				<b>225,935.00</b>

<b>C. RESTORATION</b>				
18,700	SF	Curb-To-Curb Asphalt Paving	2.00	37,400.00
3,400	SF	Concrete Cap	10.00	34,000.00
<b>SUBTOTAL - RESTORATION</b>				<b>71,400.00</b>

<b>D. DESIGN &amp; ADMINISTRATION</b>				
60	HRS	CONSTRUCTION OBSERVATIONS	65.00	3,900.00
	%	ENGINEERING FEES	20%	59,467.00
	%	AFUDC	0.25%	565.00
1	LS	LFUCG Permit Fee	250.00	250.00
<b>SUBTOTAL - DESIGN &amp; ADMINISTRATION</b>				<b>64,182.00</b>

**TOTAL ESTIMATED COST**

**\$417,167.00**



**KENTUCKY AMERICAN WATER**  
**ESTIMATE FOR:** Hagerman Court

**DATE:** 16-May-24  
**WEEKS:** 5

UNITS	UNIT		UNIT COST	ESTIMATED COST
<b>A. MATERIALS</b>				
60	LF	6" D.I.	40.00	2,400.00
1,000	LF	8" D.I.	50.00	50,000.00
0	LF	10" D.I.	60.00	0.00
0	LF	12" D.I.	85.00	0.00
0	EA	6" MJ GATE VALVE	550.00	0.00
4	EA	8" MJ GATE VALVE	700.00	2,800.00
0	EA	10" MJ GATE VALVE	1,050.00	0.00
0	EA	12" MJ GATE VALVE	1,300.00	0.00
0	EA	8" TAPPING VALVE/SLEEVE	1,100.00	0.00
0	EA	10" TAPPING VALVE/SLEEVE	900.00	0.00
0	EA	12" TAPPING VALVE/SLEEVE	1,300.00	0.00
0	EA	16" TAPPING VALVE/SLEEVE	1,400.00	0.00
14	EA	SHORT SERVICE (NON-LEAD)	250.00	3,500.00
14	EA	LONG SERVICE (NON-LEAD)	325.00	4,550.00
0	EA	SHORT SERVICE (LEAD)	400.00	0.00
0	EA	LONG SERVICE (LEAD)	500.00	0.00
3	EA	HYDRANT ASSEMBLY	2,500.00	7,500.00
0	EA	BLOWOFF ASSEMBLY	400.00	0.00
0	EA	LINESTOP	7,000.00	0.00
<b>SUBTOTAL - MATERIALS</b>				<b>70,750.00</b>

<b>B. INSTALLATION</b>				
1	LS	Trench Mobilization and Closeout	11,420.00	11,420.00
1	LS	Traffic Control	14,867.00	14,867.00
0	LF	Install Water Main: 4 inch	0.00	0.00
60	LF	Install Water Main: 6 inch	131.00	7,860.00
1,000	LF	Install Water Main: 8 inch	107.00	107,000.00
0	LF	Install Water Main: 12 inch	0.00	0.00
0	LF	Install Water Main: 16 inch	0.00	0.00
0	EA	Wet Tap ≤ 8 inch	0.00	0.00
0	EA	Wet Tap ≥ 10 inch	0.00	0.00
2	EA	Shut Down & Tie-In	4,737.00	9,474.00
4	EA	Cut & Cap Existing Water Main	3,529.00	14,116.00
0	EA	Line Stop (Excavation Only)	0.00	0.00
0	EA	4in Gate Valve and Box	0.00	0.00
0	EA	6in Gate Valve and Box	0.00	0.00
4	EA	8in Gate Valve and Box	367.00	1,468.00
0	EA	Blowoff Assembly	0.00	0.00
3	EA	Fire Hydrant Assembly	1,967.00	5,901.00
3	EA	Remove/Relocate Existing Hydrant	544.00	1,632.00
0	EA	Relocate Existing Meter	0.00	0.00



**KENTUCKY AMERICAN WATER**  
**ESTIMATE FOR:** Hagerman Court

**DATE:** 16-May-24  
**WEEKS:** 5

UNITS	UNIT		UNIT COST	ESTIMATED COST
14	EA	New Long Service	2,834.00	39,676.00
14	EA	New Short Service	1,872.00	26,208.00
<b>SUBTOTAL - INSTALLATION</b>				<b>239,622.00</b>

<b>C. RESTORATION</b>				
16,500	SF	Curb-To-Curb Asphalt Paving	6.60	108,900.00
4,000	SF	Concrete Cap	10.00	40,000.00
<b>SUBTOTAL - RESTORATION</b>				<b>148,900.00</b>

<b>D. DESIGN &amp; ADMINISTRATION</b>				
60	HRS	CONSTRUCTION OBSERVATIONS	65.00	3,900.00
	%	ENGINEERING FEES	20%	77,704.40
	%	AFUDC	0.25%	776.00
1	LS	LFUCG Permit Fee	250.00	250.00
<b>SUBTOTAL - DESIGN &amp; ADMINISTRATION</b>				<b>82,630.40</b>

**TOTAL ESTIMATED COST**

**\$541,902.00**



**KENTUCKY AMERICAN WATER**  
**ESTIMATE FOR:** Arcadia Park

**DATE:** 16-May-24  
**WEEKS:** 9

UNITS	UNIT		UNIT COST	ESTIMATED COST
<b>A. MATERIALS</b>				
60	LF	6" D.I.	40.00	2,400.00
2,800	LF	8" D.I.	50.00	140,000.00
0	LF	10" D.I.	60.00	0.00
0	LF	12" D.I.	85.00	0.00
0	EA	6" MJ GATE VALVE	550.00	0.00
8	EA	8" MJ GATE VALVE	700.00	5,600.00
0	EA	10" MJ GATE VALVE	1,050.00	0.00
0	EA	12" MJ GATE VALVE	1,300.00	0.00
1	EA	8" TAPPING VALVE/SLEEVE	1,100.00	1,100.00
0	EA	10" TAPPING VALVE/SLEEVE	900.00	0.00
0	EA	12" TAPPING VALVE/SLEEVE	1,300.00	0.00
0	EA	16" TAPPING VALVE/SLEEVE	1,400.00	0.00
38	EA	SHORT SERVICE (NON-LEAD)	250.00	9,500.00
38	EA	LONG SERVICE (NON-LEAD)	325.00	12,350.00
0	EA	SHORT SERVICE (LEAD)	400.00	0.00
0	EA	LONG SERVICE (LEAD)	500.00	0.00
3	EA	HYDRANT ASSEMBLY	2,500.00	7,500.00
0	EA	BLOWOFF ASSEMBLY	400.00	0.00
0	EA	LINESTOP	7,000.00	0.00
<b>SUBTOTAL - MATERIALS</b>				<b>178,450.00</b>

<b>B. INSTALLATION</b>				
1	LS	Trench Mobilization and Closeout	41,400.00	41,400.00
1	LS	Traffic Control	14,867.00	14,867.00
0	LF	Install Water Main: 4 inch	0.00	0.00
60	LF	Install Water Main: 6 inch	131.00	7,860.00
2,800	LF	Install Water Main: 8 inch	200.00	560,000.00
0	LF	Install Water Main: 12 inch	0.00	0.00
0	LF	Install Water Main: 16 inch	0.00	0.00
1	EA	Wet Tap ≤ 8 inch	6,200.00	6,200.00
0	EA	Wet Tap ≥ 10 inch	0.00	0.00
1	EA	Shut Down & Tie-In	4,737.00	4,737.00
4	EA	Cut & Cap Existing Water Main	3,529.00	14,116.00
0	EA	Line Stop (Excavation Only)	0.00	0.00
0	EA	4in Gate Valve and Box	0.00	0.00
0	EA	6in Gate Valve and Box	0.00	0.00
8	EA	8in Gate Valve and Box	600.00	4,800.00
0	EA	Blowoff Assembly	0.00	0.00
3	EA	Fire Hydrant Assembly	1,967.00	5,901.00
3	EA	Remove/Relocate Existing Hydrant	544.00	1,632.00
0	EA	Relocate Existing Meter	0.00	0.00
38	EA	New Long Service	3,298.00	125,324.00



**KENTUCKY AMERICAN WATER**  
**ESTIMATE FOR:** Arcadia Park

**DATE:** 16-May-24  
**WEEKS:** 9

UNITS	UNIT		UNIT COST	ESTIMATED COST
38	EA	New Short Service	2,168.00	82,384.00
<b>SUBTOTAL - INSTALLATION</b>				<b>869,221.00</b>

<b>C. RESTORATION</b>				
61,600	SF	Curb-To-Curb Asphalt Paving	2.00	123,200.00
11,200	SF	Concrete Cap	10.00	112,000.00
2,800	LF	Granite Curb	4.00	11,200.00
<b>SUBTOTAL - RESTORATION</b>				<b>246,400.00</b>

<b>D. DESIGN &amp; ADMINISTRATION</b>				
108	HRS	CONSTRUCTION OBSERVATIONS	65.00	7,020.00
	%	ENGINEERING FEES	20%	223,124.20
	%	AFUDC	0.25%	2,173.00
1	LS	LFUCG Permit Fee	250.00	250.00
<b>SUBTOTAL - DESIGN &amp; ADMINISTRATION</b>				<b>232,567.20</b>

**TOTAL ESTIMATED COST**

**\$1,526,638.00**



**KENTUCKY AMERICAN WATER****ESTIMATE FOR:** Willard Street**DATE:** 16-May-24**WEEKS:** 5

UNITS	UNIT		UNIT COST	ESTIMATED COST
<b>A. MATERIALS</b>				
80	LF	6" D.I.	40.00	3,200.00
950	LF	8" D.I.	50.00	47,500.00
0	LF	10" D.I.	60.00	0.00
0	LF	12" D.I.	85.00	0.00
0	EA	6" MJ GATE VALVE	550.00	0.00
2	EA	8" MJ GATE VALVE	700.00	1,400.00
0	EA	10" MJ GATE VALVE	1,050.00	0.00
1	EA	12" MJ GATE VALVE	1,300.00	1,300.00
0	EA	8" TAPPING VALVE/SLEEVE	1,100.00	0.00
0	EA	10" TAPPING VALVE/SLEEVE	900.00	0.00
1	EA	12" TAPPING VALVE/SLEEVE	1,300.00	1,300.00
0	EA	16" TAPPING VALVE/SLEEVE	1,400.00	0.00
9	EA	SHORT SERVICE (NON-LEAD)	250.00	2,250.00
9	EA	LONG SERVICE (NON-LEAD)	325.00	2,925.00
0	EA	SHORT SERVICE (LEAD)	400.00	0.00
0	EA	LONG SERVICE (LEAD)	500.00	0.00
4	EA	HYDRANT ASSEMBLY	2,500.00	10,000.00
0	EA	BLOWOFF ASSEMBLY	400.00	0.00
0	EA	LINESTOP	7,000.00	0.00
<b>SUBTOTAL - MATERIALS</b>				<b>69,875.00</b>

<b>B. INSTALLATION</b>				
1	LS	Trench Mobilization and Closeout	10,650.00	10,650.00
1	LS	Traffic Control	14,867.00	14,867.00
0	LF	Install Water Main: 4 inch	0.00	0.00
80	LF	Install Water Main: 6 inch	131.00	10,480.00
950	LF	Install Water Main: 8 inch	107.00	101,650.00
0	LF	Install Water Main: 12 inch	0.00	0.00
0	LF	Install Water Main: 16 inch	0.00	0.00
0	EA	Wet Tap ≤ 8 inch	0.00	0.00
1	EA	Wet Tap ≥ 10 inch	7,008.00	7,008.00
1	EA	Shut Down & Tie-In	4,737.00	4,737.00
4	EA	Cut & Cap Existing Water Main	3,529.00	14,116.00
0	EA	Line Stop (Excavation Only)	0.00	0.00
0	EA	4in Gate Valve and Box	0.00	0.00
0	EA	6in Gate Valve and Box	0.00	0.00
2	EA	8in Gate Valve and Box	367.00	734.00
0	EA	Blowoff Assembly	0.00	0.00
4	EA	Fire Hydrant Assembly	1,967.00	7,868.00
4	EA	Remove/Relocate Existing Hydrant	544.00	2,176.00
0	EA	Relocate Existing Meter	0.00	0.00



**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** Willard Street**WEEKS:** 5

UNITS	UNIT		UNIT COST	ESTIMATED COST
9	EA	New Long Service	3,298.00	29,682.00
9	EA	New Short Service	2,168.00	19,512.00
<b>SUBTOTAL - INSTALLATION</b>				<b>223,480.00</b>

<b>C. RESTORATION</b>				
20,900	SF	Curb-To-Curb Asphalt Paving	2.00	41,800.00
3,800	SF	Concrete Cap	10.00	38,000.00
<b>SUBTOTAL - RESTORATION</b>				<b>79,800.00</b>

<b>D. DESIGN &amp; ADMINISTRATION</b>				
60	HRS	CONSTRUCTION OBSERVATIONS	65.00	3,900.00
	%	ENGINEERING FEES	20%	60,656.00
	%	AFUDC	0.25%	559.00
1	LS	LFUCG Permit Fee	250.00	250.00
<b>SUBTOTAL - DESIGN &amp; ADMINISTRATION</b>				<b>65,365.00</b>

**TOTAL ESTIMATED COST****\$438,520.00**



**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** South Upper Street (Cedar to Limestone)**WEEKS:** 6

UNITS	UNIT		UNIT COST	ESTIMATED COST
<b>A. MATERIALS</b>				
120	LF	6" D.I.	40.00	4,800.00
1,600	LF	8" D.I.	50.00	80,000.00
0	LF	10" D.I.	60.00	0.00
0	LF	12" D.I.	85.00	0.00
0	EA	6" MJ GATE VALVE	550.00	0.00
21	EA	8" MJ GATE VALVE	700.00	14,700.00
0	EA	10" MJ GATE VALVE	1,050.00	0.00
2	EA	12" MJ GATE VALVE	1,300.00	2,600.00
0	EA	8" TAPPING VALVE/SLEEVE	1,100.00	0.00
0	EA	10" TAPPING VALVE/SLEEVE	900.00	0.00
2	EA	12" TAPPING VALVE/SLEEVE	1,300.00	2,600.00
0	EA	16" TAPPING VALVE/SLEEVE	1,400.00	0.00
3	EA	SHORT SERVICE (NON-LEAD)	250.00	750.00
3	EA	LONG SERVICE (NON-LEAD)	325.00	975.00
0	EA	SHORT SERVICE (LEAD)	400.00	0.00
0	EA	LONG SERVICE (LEAD)	500.00	0.00
6	EA	HYDRANT ASSEMBLY	2,500.00	15,000.00
0	EA	BLOWOFF ASSEMBLY	400.00	0.00
2	EA	LINESTOP	7,000.00	14,000.00
<b>SUBTOTAL - MATERIALS</b>				<b>135,425.00</b>

<b>B. INSTALLATION</b>				
1	LS	Trench Mobilization and Closeout	23,520.00	23,520.00
1	LS	Traffic Control	40,000.00	40,000.00
0	LF	Install Water Main: 4 inch	0.00	0.00
120	LF	Install Water Main: 6 inch	322.00	38,640.00
1,600	LF	Install Water Main: 8 inch	153.00	244,800.00
0	LF	Install Water Main: 12 inch	0.00	0.00
0	LF	Install Water Main: 16 inch	0.00	0.00
0	EA	Wet Tap ≤ 8 inch	0.00	0.00
2	EA	Wet Tap ≥ 10 inch	7,008.00	14,016.00
5	EA	Shut Down & Tie-In	4,737.00	23,685.00
14	EA	Cut & Cap Existing Water Main	3,529.00	49,406.00
2	EA	Line Stop (Excavation Only)	3,529.00	7,058.00
0	EA	4in Gate Valve and Box	0.00	0.00
0	EA	6in Gate Valve and Box	0.00	0.00
21	EA	8in Gate Valve and Box	367.00	7,707.00
0	EA	Blowoff Assembly	0.00	0.00
6	EA	Fire Hydrant Assembly	1,967.00	11,802.00
6	EA	Remove/Relocate Existing Hydrant	544.00	3,264.00
0	EA	Relocate Existing Meter	0.00	0.00



**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** South Upper Street (Cedar to Limestone)**WEEKS:** 6

UNITS	UNIT		UNIT COST	ESTIMATED COST
3	EA	New Long Service	6,000.00	18,000.00
3	EA	New Short Service	4,000.00	12,000.00
<b>SUBTOTAL - INSTALLATION</b>				<b>493,898.00</b>

<b>C. RESTORATION</b>				
52,800	SF	Curb-To-Curb Asphalt Paving	2.00	105,600.00
6,400	SF	Concrete Cap	10.00	64,000.00
<b>SUBTOTAL - RESTORATION</b>				<b>169,600.00</b>

<b>D. DESIGN &amp; ADMINISTRATION</b>				
72	HRS	CONSTRUCTION OBSERVATIONS	65.00	4,680.00
	%	ENGINEERING FEES	15%	99,530.00
	%	AFUDC	0.25%	1,573.00
1	LS	LFUCG Permit Fee	250.00	250.00
<b>SUBTOTAL - DESIGN &amp; ADMINISTRATION</b>				<b>106,033.00</b>

**TOTAL ESTIMATED COST****\$904,956.00**



**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** High Street (Rose to Mill)**WEEKS:** 9

UNITS	UNIT		UNIT COST	ESTIMATED COST
<b>A. MATERIALS</b>				
120	LF	6" D.I.	40.00	4,800.00
2,600	LF	8" D.I.	50.00	130,000.00
0	LF	10" D.I.	60.00	0.00
0	LF	12" D.I.	85.00	0.00
0	EA	6" MJ GATE VALVE	550.00	0.00
26	EA	8" MJ GATE VALVE	700.00	18,200.00
0	EA	10" MJ GATE VALVE	1,050.00	0.00
0	EA	12" MJ GATE VALVE	1,300.00	0.00
0	EA	8" TAPPING VALVE/SLEEVE	1,100.00	0.00
0	EA	10" TAPPING VALVE/SLEEVE	900.00	0.00
0	EA	12" TAPPING VALVE/SLEEVE	1,300.00	0.00
0	EA	16" TAPPING VALVE/SLEEVE	1,400.00	0.00
5	EA	SHORT SERVICE (NON-LEAD)	250.00	1,250.00
5	EA	LONG SERVICE (NON-LEAD)	325.00	1,625.00
0	EA	SHORT SERVICE (LEAD)	400.00	0.00
0	EA	LONG SERVICE (LEAD)	500.00	0.00
6	EA	HYDRANT ASSEMBLY	2,500.00	15,000.00
0	EA	BLOWOFF ASSEMBLY	400.00	0.00
2	EA	LINESTOP	7,000.00	14,000.00
<b>SUBTOTAL - MATERIALS</b>				<b>184,875.00</b>

<b>B. INSTALLATION</b>				
1	LS	Trench Mobilization and Closeout	34,130.00	34,130.00
1	LS	Traffic Control	60,000.00	60,000.00
0	LF	Install Water Main: 4 inch	0.00	0.00
120	LF	Install Water Main: 6 inch	322.00	38,640.00
2,600	LF	Install Water Main: 8 inch	153.00	397,800.00
0	LF	Install Water Main: 12 inch	0.00	0.00
0	LF	Install Water Main: 16 inch	0.00	0.00
0	EA	Wet Tap ≤ 8 inch	0.00	0.00
0	EA	Wet Tap ≥ 10 inch	0.00	0.00
8	EA	Shut Down & Tie-In	4,737.00	37,896.00
16	EA	Cut & Cap Existing Water Main	3,529.00	56,464.00
2	EA	Line Stop (Excavation Only)	3,529.00	7,058.00
0	EA	4in Gate Valve and Box	0.00	0.00
0	EA	6in Gate Valve and Box	0.00	0.00
26	EA	8in Gate Valve and Box	367.00	9,542.00
0	EA	Blowoff Assembly	0.00	0.00
6	EA	Fire Hydrant Assembly	1,967.00	11,802.00
6	EA	Remove/Relocate Existing Hydrant	544.00	3,264.00
0	EA	Relocate Existing Meter	0.00	0.00
5	EA	New Long Service	7,000.00	35,000.00



**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** High Street (Rose to Mill)**WEEKS:** 9

UNITS	UNIT		UNIT COST	ESTIMATED COST
5	EA	New Short Service	5,000.00	25,000.00
<b>SUBTOTAL - INSTALLATION</b>				<b>716,596.00</b>

**C. RESTORATION**

85,800	SF	Curb-To-Curb Asphalt Paving	2.00	171,600.00
10,400	SF	Concrete Cap	10.00	104,000.00
<b>SUBTOTAL - RESTORATION</b>				<b>275,600.00</b>

**D. DESIGN & ADMINISTRATION**

108	HRS	CONSTRUCTION OBSERVATIONS	65.00	7,020.00
	%	ENGINEERING FEES	15%	148,830.00
	%	AFUDC	0.25%	2,254.00
1	LS	LFUCG Permit Fee	250.00	250.00
<b>SUBTOTAL - DESIGN &amp; ADMINISTRATION</b>				<b>158,354.00</b>

**TOTAL ESTIMATED COST****\$1,335,425.00**



**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** Graham Avenue / Gladstone Avenue**WEEKS:** 4

UNITS	UNIT		UNIT COST	ESTIMATED COST
<b>A. MATERIALS</b>				
80	LF	6" D.I.	40.00	3,200.00
750	LF	8" D.I.	50.00	37,500.00
0	LF	10" D.I.	60.00	0.00
0	LF	12" D.I.	85.00	0.00
0	EA	6" MJ GATE VALVE	550.00	0.00
8	EA	8" MJ GATE VALVE	700.00	5,600.00
0	EA	10" MJ GATE VALVE	1,050.00	0.00
1	EA	12" MJ GATE VALVE	1,300.00	1,300.00
0	EA	8" TAPPING VALVE/SLEEVE	1,100.00	0.00
0	EA	10" TAPPING VALVE/SLEEVE	900.00	0.00
1	EA	12" TAPPING VALVE/SLEEVE	1,300.00	1,300.00
0	EA	16" TAPPING VALVE/SLEEVE	1,400.00	0.00
1	EA	SHORT SERVICE (NON-LEAD)	250.00	250.00
1	EA	LONG SERVICE (NON-LEAD)	325.00	325.00
0	EA	SHORT SERVICE (LEAD)	400.00	0.00
0	EA	LONG SERVICE (LEAD)	500.00	0.00
4	EA	HYDRANT ASSEMBLY	2,500.00	10,000.00
0	EA	BLOWOFF ASSEMBLY	400.00	0.00
1	EA	LINESTOP	7,000.00	7,000.00
<b>SUBTOTAL - MATERIALS</b>				<b>66,475.00</b>

<b>B. INSTALLATION</b>				
1	LS	Trench Mobilization and Closeout	7,360.00	7,360.00
1	LS	Traffic Control	6,000.00	6,000.00
0	LF	Install Water Main: 4 inch	0.00	0.00
80	LF	Install Water Main: 6 inch	131.00	10,480.00
750	LF	Install Water Main: 8 inch	107.00	80,250.00
0	LF	Install Water Main: 12 inch	0.00	0.00
0	LF	Install Water Main: 16 inch	0.00	0.00
0	EA	Wet Tap ≤ 8 inch	0.00	0.00
1	EA	Wet Tap ≥ 10 inch	7,008.00	7,008.00
1	EA	Shut Down & Tie-In	4,737.00	4,737.00
4	EA	Cut & Cap Existing Water Main	3,529.00	14,116.00
1	EA	Line Stop (Excavation Only)	3,529.00	3,529.00
0	EA	4in Gate Valve and Box	0.00	0.00
0	EA	6in Gate Valve and Box	0.00	0.00
8	EA	8in Gate Valve and Box	367.00	2,936.00
0	EA	Blowoff Assembly	0.00	0.00
4	EA	Fire Hydrant Assembly	1,967.00	7,868.00
4	EA	Remove/Relocate Existing Hydrant	544.00	2,176.00
0	EA	Relocate Existing Meter	0.00	0.00



**KENTUCKY AMERICAN WATER**  
**ESTIMATE FOR:** Graham Avenue / Gladstone Avenue

**DATE:** 16-May-24  
**WEEKS:** 4

UNITS	UNIT		UNIT COST	ESTIMATED COST
1	EA	New Long Service	5,000.00	5,000.00
1	EA	New Short Service	3,000.00	3,000.00
<b>SUBTOTAL - INSTALLATION</b>				<b>154,460.00</b>

<b>C. RESTORATION</b>				
24,750	SF	Curb-To-Curb Asphalt Paving	6.60	163,350.00
3,000	SF	Concrete Cap	10.00	30,000.00
<b>SUBTOTAL - RESTORATION</b>				<b>193,350.00</b>

<b>D. DESIGN &amp; ADMINISTRATION</b>				
48	HRS	CONSTRUCTION OBSERVATIONS	65.00	3,120.00
	%	ENGINEERING FEES	15%	52,180.00
	%	AFUDC	0.25%	552.00
1	LS	LFUCG Permit Fee	250.00	250.00
<b>SUBTOTAL - DESIGN &amp; ADMINISTRATION</b>				<b>56,102.00</b>

**TOTAL ESTIMATED COST**

**\$470,387.00**



**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** Lackawanna / Wabash (Replace)**WEEKS:** 8

UNITS	UNIT		UNIT COST	ESTIMATED COST
<b>A. MATERIALS</b>				
60	LF	6" D.I.	40.00	2,400.00
2,100	LF	8" D.I.	50.00	105,000.00
0	LF	10" D.I.	60.00	0.00
0	LF	12" D.I.	85.00	0.00
0	EA	6" MJ GATE VALVE	550.00	0.00
8	EA	8" MJ GATE VALVE	700.00	5,600.00
0	EA	10" MJ GATE VALVE	1,050.00	0.00
0	EA	12" MJ GATE VALVE	1,300.00	0.00
2	EA	8" TAPPING VALVE/SLEEVE	1,100.00	2,200.00
0	EA	10" TAPPING VALVE/SLEEVE	900.00	0.00
0	EA	12" TAPPING VALVE/SLEEVE	1,300.00	0.00
0	EA	16" TAPPING VALVE/SLEEVE	1,400.00	0.00
24	EA	SHORT SERVICE (NON-LEAD)	250.00	6,000.00
24	EA	LONG SERVICE (NON-LEAD)	325.00	7,800.00
0	EA	SHORT SERVICE (LEAD)	400.00	0.00
0	EA	LONG SERVICE (LEAD)	500.00	0.00
3	EA	HYDRANT ASSEMBLY	2,500.00	7,500.00
0	EA	BLOWOFF ASSEMBLY	400.00	0.00
0	EA	LINESTOP	7,000.00	0.00
<b>SUBTOTAL - MATERIALS</b>				<b>136,500.00</b>

<b>B. INSTALLATION</b>				
1	LS	Trench Mobilization and Closeout	31,550.00	31,550.00
1	LS	Traffic Control	14,867.00	14,867.00
0	LF	Install Water Main: 4 inch	0.00	0.00
60	LF	Install Water Main: 6 inch	131.00	7,860.00
2,100	LF	Install Water Main: 8 inch	200.00	420,000.00
0	LF	Install Water Main: 12 inch	0.00	0.00
0	LF	Install Water Main: 16 inch	0.00	0.00
2	EA	Wet Tap ≤ 8 inch	6,200.00	12,400.00
0	EA	Wet Tap ≥ 10 inch	0.00	0.00
2	EA	Shut Down & Tie-In	4,737.00	9,474.00
7	EA	Cut & Cap Existing Water Main	3,529.00	24,703.00
0	EA	Line Stop (Excavation Only)	0.00	0.00
0	EA	4in Gate Valve and Box	0.00	0.00
0	EA	6in Gate Valve and Box	0.00	0.00
8	EA	8in Gate Valve and Box	367.00	2,936.00
0	EA	Blowoff Assembly	0.00	0.00
3	EA	Fire Hydrant Assembly	1,967.00	5,901.00
3	EA	Remove/Relocate Existing Hydrant	544.00	1,632.00
0	EA	Relocate Existing Meter	0.00	0.00
24	EA	New Long Service	3,298.00	79,152.00



**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** Lackawanna / Wabash (Replace)**WEEKS:** 8

UNITS	UNIT		UNIT COST	ESTIMATED COST
24	EA	New Short Service	2,168.00	52,032.00
<b>SUBTOTAL - INSTALLATION</b>				<b>662,507.00</b>

**C. RESTORATION**

46,200	SF	Curb-To-Curb Asphalt Paving	2.00	92,400.00
8,400	SF	Concrete Cap	10.00	84,000.00
<b>SUBTOTAL - RESTORATION</b>				<b>176,400.00</b>

**D. DESIGN & ADMINISTRATION**

96	HRS	CONSTRUCTION OBSERVATIONS	65.00	6,240.00
	%	ENGINEERING FEES	20%	167,781.40
	%	AFUDC	0.25%	1,656.00
1	LS	LFUCG Permit Fee	250.00	250.00
<b>SUBTOTAL - DESIGN &amp; ADMINISTRATION</b>				<b>175,927.40</b>

**TOTAL ESTIMATED COST****\$1,151,334.00**



**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** Lackawanna / Wabash / Pensacola (Retire)**WEEKS:** 4

UNITS	UNIT		UNIT COST	ESTIMATED COST
<b>A. MATERIALS</b>				
0	LF	6" D.I.	40.00	0.00
0	LF	8" D.I.	50.00	0.00
0	LF	10" D.I.	60.00	0.00
0	LF	12" D.I.	85.00	0.00
0	EA	6" MJ GATE VALVE	550.00	0.00
0	EA	8" MJ GATE VALVE	700.00	0.00
0	EA	10" MJ GATE VALVE	1,050.00	0.00
0	EA	12" MJ GATE VALVE	1,300.00	0.00
0	EA	8" TAPPING VALVE/SLEEVE	1,100.00	0.00
0	EA	10" TAPPING VALVE/SLEEVE	900.00	0.00
0	EA	12" TAPPING VALVE/SLEEVE	1,300.00	0.00
0	EA	16" TAPPING VALVE/SLEEVE	1,400.00	0.00
22	EA	SHORT SERVICE (NON-LEAD)	250.00	5,500.00
22	EA	LONG SERVICE (NON-LEAD)	325.00	7,150.00
0	EA	SHORT SERVICE (LEAD)	400.00	0.00
0	EA	LONG SERVICE (LEAD)	500.00	0.00
0	EA	HYDRANT ASSEMBLY	2,500.00	0.00
0	EA	BLOWOFF ASSEMBLY	400.00	0.00
0	EA	LINESTOP	7,000.00	0.00
<b>SUBTOTAL - MATERIALS</b>				<b>12,650.00</b>

<b>B. INSTALLATION</b>				
1	LS	Trench Mobilization and Closeout	2,000.00	2,000.00
1	LS	Traffic Control	2,500.00	2,500.00
0	LF	Install Water Main: 4 inch	0.00	0.00
0	LF	Install Water Main: 6 inch	0.00	0.00
0	LF	Install Water Main: 8 inch	0.00	0.00
0	LF	Install Water Main: 12 inch	0.00	0.00
0	LF	Install Water Main: 16 inch	0.00	0.00
0	EA	Wet Tap ≤ 8 inch	0.00	0.00
0	EA	Wet Tap ≥ 10 inch	0.00	0.00
0	EA	Shut Down & Tie-In	0.00	0.00
2	EA	Cut & Cap Existing Water Main	8,000.00	16,000.00
0	EA	Line Stop (Excavation Only)	0.00	0.00
0	EA	4in Gate Valve and Box	0.00	0.00
0	EA	6in Gate Valve and Box	0.00	0.00
0	EA	8in Gate Valve and Box	0.00	0.00
0	EA	Blowoff Assembly	0.00	0.00
0	EA	Fire Hydrant Assembly	0.00	0.00
0	EA	Remove/Relocate Existing Hydrant	0.00	0.00
0	EA	Relocate Existing Meter	0.00	0.00



**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** Lackawanna / Wabash / Pensacola (Retire)**WEEKS:** 4

UNITS	UNIT		UNIT COST	ESTIMATED COST
22	EA	New Long Service	3,298.00	72,556.00
22	EA	New Short Service	2,168.00	47,696.00
<b>SUBTOTAL - INSTALLATION</b>				<b>140,752.00</b>

<b>C. RESTORATION</b>				
0	SF	Curb-To-Curb Asphalt Paving	2.00	0.00
0	SF	Concrete Cap	10.00	0.00
<b>SUBTOTAL - RESTORATION</b>				<b>0.00</b>

<b>D. DESIGN &amp; ADMINISTRATION</b>				
48	HRS	CONSTRUCTION OBSERVATIONS	65.00	3,120.00
	%	ENGINEERING FEES	20%	5,000.00
	%	AFUDC	0.25%	352.00
1	LS	LFUCG Permit Fee	250.00	250.00
<b>SUBTOTAL - DESIGN &amp; ADMINISTRATION</b>				<b>8,722.00</b>

**TOTAL ESTIMATED COST****\$162,124.00**



**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** Euclid Avenue (High to S Ashland)**WEEKS:** 4

UNITS	UNIT		UNIT COST	ESTIMATED COST
<b>A. MATERIALS</b>				
40	LF	6" D.I.	40.00	1,600.00
500	LF	8" D.I.	50.00	25,000.00
0	LF	10" D.I.	60.00	0.00
0	LF	12" D.I.	85.00	0.00
0	EA	6" MJ GATE VALVE	550.00	0.00
7	EA	8" MJ GATE VALVE	700.00	4,900.00
0	EA	10" MJ GATE VALVE	1,050.00	0.00
0	EA	12" MJ GATE VALVE	1,300.00	0.00
0	EA	8" TAPPING VALVE/SLEEVE	1,100.00	0.00
0	EA	10" TAPPING VALVE/SLEEVE	900.00	0.00
0	EA	12" TAPPING VALVE/SLEEVE	1,300.00	0.00
0	EA	16" TAPPING VALVE/SLEEVE	1,400.00	0.00
9	EA	SHORT SERVICE (NON-LEAD)	250.00	2,250.00
9	EA	LONG SERVICE (NON-LEAD)	325.00	2,925.00
0	EA	SHORT SERVICE (LEAD)	400.00	0.00
0	EA	LONG SERVICE (LEAD)	500.00	0.00
2	EA	HYDRANT ASSEMBLY	2,500.00	5,000.00
0	EA	BLOWOFF ASSEMBLY	400.00	0.00
0	EA	LINESTOP	7,000.00	0.00
<b>SUBTOTAL - MATERIALS</b>				<b>41,675.00</b>

<b>B. INSTALLATION</b>				
1	LS	Trench Mobilization and Closeout	14,750.00	14,750.00
1	LS	Traffic Control	50,000.00	50,000.00
0	LF	Install Water Main: 4 inch	0.00	0.00
40	LF	Install Water Main: 6 inch	300.00	12,000.00
500	LF	Install Water Main: 8 inch	200.00	100,000.00
0	LF	Install Water Main: 12 inch	0.00	0.00
0	LF	Install Water Main: 16 inch	0.00	0.00
0	EA	Wet Tap ≤ 8 inch	0.00	0.00
0	EA	Wet Tap ≥ 10 inch	0.00	0.00
3	EA	Shut Down & Tie-In	4,737.00	14,211.00
6	EA	Cut & Cap Existing Water Main	3,529.00	21,174.00
0	EA	Line Stop (Excavation Only)	0.00	0.00
0	EA	4in Gate Valve and Box	0.00	0.00
0	EA	6in Gate Valve and Box	0.00	0.00
7	EA	8in Gate Valve and Box	367.00	2,569.00
0	EA	Blowoff Assembly	0.00	0.00
2	EA	Fire Hydrant Assembly	1,967.00	3,934.00
2	EA	Remove/Relocate Existing Hydrant	544.00	1,088.00
0	EA	Relocate Existing Meter	0.00	0.00



**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** Euclid Avenue (High to S Ashland)**WEEKS:** 4

UNITS	UNIT		UNIT COST	ESTIMATED COST
9	EA	New Long Service	6,000.00	54,000.00
9	EA	New Short Service	4,000.00	36,000.00
<b>SUBTOTAL - INSTALLATION</b>				<b>309,726.00</b>

<b>C. RESTORATION</b>				
16,500	SF	Curb-To-Curb Asphalt Paving	4.38	72,270.00
2,000	SF	Concrete Cap	10.00	20,000.00
<b>SUBTOTAL - RESTORATION</b>				<b>92,270.00</b>

<b>D. DESIGN &amp; ADMINISTRATION</b>				
48	HRS	CONSTRUCTION OBSERVATIONS	65.00	3,120.00
	%	ENGINEERING FEES	5%	20,100.00
	%	AFUDC	0.25%	879.00
1	LS	LFUCG Permit Fee	250.00	250.00
<b>SUBTOTAL - DESIGN &amp; ADMINISTRATION</b>				<b>24,349.00</b>

**TOTAL ESTIMATED COST****\$468,020.00**



**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** South Ashland (Euclid to Ashland Terrace)**WEEKS:** 4

UNITS	UNIT		UNIT COST	ESTIMATED COST
<b>A. MATERIALS</b>				
40	LF	6" D.I.	40.00	1,600.00
450	LF	8" D.I.	50.00	22,500.00
0	LF	10" D.I.	60.00	0.00
0	LF	12" D.I.	85.00	0.00
0	EA	6" MJ GATE VALVE	550.00	0.00
5	EA	8" MJ GATE VALVE	700.00	3,500.00
0	EA	10" MJ GATE VALVE	1,050.00	0.00
1	EA	12" MJ GATE VALVE	1,300.00	1,300.00
0	EA	8" TAPPING VALVE/SLEEVE	1,100.00	0.00
0	EA	10" TAPPING VALVE/SLEEVE	900.00	0.00
1	EA	12" TAPPING VALVE/SLEEVE	1,300.00	1,300.00
0	EA	16" TAPPING VALVE/SLEEVE	1,400.00	0.00
4	EA	SHORT SERVICE (NON-LEAD)	250.00	1,000.00
4	EA	LONG SERVICE (NON-LEAD)	325.00	1,300.00
0	EA	SHORT SERVICE (LEAD)	400.00	0.00
0	EA	LONG SERVICE (LEAD)	500.00	0.00
2	EA	HYDRANT ASSEMBLY	2,500.00	5,000.00
0	EA	BLOWOFF ASSEMBLY	400.00	0.00
0	EA	LINESTOP	7,000.00	0.00
<b>SUBTOTAL - MATERIALS</b>				<b>37,500.00</b>

<b>B. INSTALLATION</b>				
1	LS	Trench Mobilization and Closeout	9,740.00	9,740.00
1	LS	Traffic Control	20,000.00	20,000.00
0	LF	Install Water Main: 4 inch	0.00	0.00
40	LF	Install Water Main: 6 inch	300.00	12,000.00
450	LF	Install Water Main: 8 inch	200.00	90,000.00
0	LF	Install Water Main: 12 inch	0.00	0.00
0	LF	Install Water Main: 16 inch	0.00	0.00
0	EA	Wet Tap ≤ 8 inch	0.00	0.00
1	EA	Wet Tap ≥ 10 inch	7,008.00	7,008.00
1	EA	Shut Down & Tie-In	4,737.00	4,737.00
4	EA	Cut & Cap Existing Water Main	3,529.00	14,116.00
0	EA	Line Stop (Excavation Only)	0.00	0.00
0	EA	4in Gate Valve and Box	0.00	0.00
0	EA	6in Gate Valve and Box	0.00	0.00
5	EA	8in Gate Valve and Box	367.00	1,835.00
0	EA	Blowoff Assembly	0.00	0.00
2	EA	Fire Hydrant Assembly	1,967.00	3,934.00
2	EA	Remove/Relocate Existing Hydrant	544.00	1,088.00
0	EA	Relocate Existing Meter	0.00	0.00



**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** South Ashland (Euclid to Ashland Terrace)**WEEKS:** 4

UNITS	UNIT		UNIT COST	ESTIMATED COST
4	EA	New Long Service	6,000.00	24,000.00
4	EA	New Short Service	4,000.00	16,000.00
<b>SUBTOTAL - INSTALLATION</b>				<b>204,458.00</b>

<b>C. RESTORATION</b>				
19,800	SF	Curb-To-Curb Asphalt Paving	4.38	86,724.00
1,800	SF	Concrete Cap	10.00	18,000.00
<b>SUBTOTAL - RESTORATION</b>				<b>104,724.00</b>

<b>D. DESIGN &amp; ADMINISTRATION</b>				
48	HRS	CONSTRUCTION OBSERVATIONS	65.00	3,120.00
	%	ENGINEERING FEES	5%	15,460.00
	%	AFUDC	0.25%	605.00
1	LS	LFUCG Permit Fee	250.00	250.00
<b>SUBTOTAL - DESIGN &amp; ADMINISTRATION</b>				<b>19,435.00</b>

**TOTAL ESTIMATED COST****\$366,117.00**



**KENTUCKY AMERICAN WATER**  
**ESTIMATE FOR:** Ashland Terrace

**DATE:** 16-May-24  
**WEEKS:** 4

UNITS	UNIT		UNIT COST	ESTIMATED COST
<b>A. MATERIALS</b>				
40	LF	6" D.I.	40.00	1,600.00
750	LF	8" D.I.	50.00	37,500.00
0	LF	10" D.I.	60.00	0.00
0	LF	12" D.I.	85.00	0.00
0	EA	6" MJ GATE VALVE	550.00	0.00
4	EA	8" MJ GATE VALVE	700.00	2,800.00
0	EA	10" MJ GATE VALVE	1,050.00	0.00
0	EA	12" MJ GATE VALVE	1,300.00	0.00
0	EA	8" TAPPING VALVE/SLEEVE	1,100.00	0.00
0	EA	10" TAPPING VALVE/SLEEVE	900.00	0.00
0	EA	12" TAPPING VALVE/SLEEVE	1,300.00	0.00
0	EA	16" TAPPING VALVE/SLEEVE	1,400.00	0.00
6	EA	SHORT SERVICE (NON-LEAD)	250.00	1,500.00
6	EA	LONG SERVICE (NON-LEAD)	325.00	1,950.00
0	EA	SHORT SERVICE (LEAD)	400.00	0.00
0	EA	LONG SERVICE (LEAD)	500.00	0.00
2	EA	HYDRANT ASSEMBLY	2,500.00	5,000.00
0	EA	BLOWOFF ASSEMBLY	400.00	0.00
0	EA	LINESTOP	7,000.00	0.00
<b>SUBTOTAL - MATERIALS</b>				<b>50,350.00</b>

<b>B. INSTALLATION</b>				
1	LS	Trench Mobilization and Closeout	12,340.00	12,340.00
1	LS	Traffic Control	10,000.00	10,000.00
0	LF	Install Water Main: 4 inch	0.00	0.00
40	LF	Install Water Main: 6 inch	300.00	12,000.00
750	LF	Install Water Main: 8 inch	200.00	150,000.00
0	LF	Install Water Main: 12 inch	0.00	0.00
0	LF	Install Water Main: 16 inch	0.00	0.00
0	EA	Wet Tap ≤ 8 inch	0.00	0.00
0	EA	Wet Tap ≥ 10 inch	0.00	0.00
3	EA	Shut Down & Tie-In	4,737.00	14,211.00
6	EA	Cut & Cap Existing Water Main	3,529.00	21,174.00
0	EA	Line Stop (Excavation Only)	0.00	0.00
0	EA	4in Gate Valve and Box	0.00	0.00
0	EA	6in Gate Valve and Box	0.00	0.00
4	EA	8in Gate Valve and Box	367.00	1,468.00
0	EA	Blowoff Assembly	0.00	0.00
2	EA	Fire Hydrant Assembly	1,967.00	3,934.00
2	EA	Remove/Relocate Existing Hydrant	544.00	1,088.00
0	EA	Relocate Existing Meter	0.00	0.00

**KENTUCKY AMERICAN WATER**  
**ESTIMATE FOR:** Ashland Terrace

**DATE:** 16-May-24  
**WEEKS:** 4

UNITS	UNIT		UNIT COST	ESTIMATED COST
6	EA	New Long Service	3,298.00	19,788.00
6	EA	New Short Service	2,168.00	13,008.00
<b>SUBTOTAL - INSTALLATION</b>				<b>259,011.00</b>

<b>C. RESTORATION</b>				
24,750	SF	Curb-To-Curb Asphalt Paving	6.60	163,350.00
3,000	SF	Concrete Cap	10.00	30,000.00
<b>SUBTOTAL - RESTORATION</b>				<b>193,350.00</b>

<b>D. DESIGN &amp; ADMINISTRATION</b>				
48	HRS	CONSTRUCTION OBSERVATIONS	65.00	3,120.00
	%	ENGINEERING FEES	10%	45,240.00
	%	AFUDC	0.25%	773.00
1	LS	LFUCG Permit Fee	250.00	250.00
<b>SUBTOTAL - DESIGN &amp; ADMINISTRATION</b>				<b>49,383.00</b>

**TOTAL ESTIMATED COST**

**\$552,094.00**



**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** Sycamore Road (south of Richmond Rd)**WEEKS:** 7

UNITS	UNIT		UNIT COST	ESTIMATED COST
<b>A. MATERIALS</b>				
80	LF	6" D.I.	40.00	3,200.00
2,000	LF	8" D.I.	50.00	100,000.00
0	LF	10" D.I.	60.00	0.00
0	LF	12" D.I.	85.00	0.00
0	EA	6" MJ GATE VALVE	550.00	0.00
8	EA	8" MJ GATE VALVE	700.00	5,600.00
0	EA	10" MJ GATE VALVE	1,050.00	0.00
1	EA	12" MJ GATE VALVE	1,300.00	1,300.00
0	EA	8" TAPPING VALVE/SLEEVE	1,100.00	0.00
0	EA	10" TAPPING VALVE/SLEEVE	900.00	0.00
1	EA	12" TAPPING VALVE/SLEEVE	1,300.00	1,300.00
0	EA	16" TAPPING VALVE/SLEEVE	1,400.00	0.00
42	EA	SHORT SERVICE (NON-LEAD)	250.00	10,500.00
42	EA	LONG SERVICE (NON-LEAD)	325.00	13,650.00
0	EA	SHORT SERVICE (LEAD)	400.00	0.00
0	EA	LONG SERVICE (LEAD)	500.00	0.00
4	EA	HYDRANT ASSEMBLY	2,500.00	10,000.00
0	EA	BLOWOFF ASSEMBLY	400.00	0.00
0	EA	LINESTOP	7,000.00	0.00
<b>SUBTOTAL - MATERIALS</b>				<b>145,550.00</b>

<b>B. INSTALLATION</b>				
1	LS	Trench Mobilization and Closeout	24,100.00	24,100.00
1	LS	Traffic Control	6,000.00	6,000.00
0	LF	Install Water Main: 4 inch	0.00	0.00
80	LF	Install Water Main: 6 inch	131.00	10,480.00
2,000	LF	Install Water Main: 8 inch	107.00	214,000.00
0	LF	Install Water Main: 12 inch	0.00	0.00
0	LF	Install Water Main: 16 inch	0.00	0.00
0	EA	Wet Tap ≤ 8 inch	0.00	0.00
1	EA	Wet Tap ≥ 10 inch	7,008.00	7,008.00
3	EA	Shut Down & Tie-In	4,737.00	14,211.00
8	EA	Cut & Cap Existing Water Main	3,529.00	28,232.00
0	EA	Line Stop (Excavation Only)	0.00	0.00
0	EA	4in Gate Valve and Box	0.00	0.00
0	EA	6in Gate Valve and Box	0.00	0.00
8	EA	8in Gate Valve and Box	367.00	2,936.00
0	EA	Blowoff Assembly	0.00	0.00
4	EA	Fire Hydrant Assembly	1,967.00	7,868.00
4	EA	Remove/Relocate Existing Hydrant	544.00	2,176.00
0	EA	Relocate Existing Meter	0.00	0.00

**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** Sycamore Road (south of Richmond Rd)**WEEKS:** 7

UNITS	UNIT		UNIT COST	ESTIMATED COST
42	EA	New Long Service	2,500.00	105,000.00
42	EA	New Short Service	2,000.00	84,000.00
<b>SUBTOTAL - INSTALLATION</b>				<b>506,011.00</b>

<b>C. RESTORATION</b>				
44,000	SF	Curb-To-Curb Asphalt Paving	2.00	88,000.00
8,000	SF	Concrete Cap	10.00	80,000.00
<b>SUBTOTAL - RESTORATION</b>				<b>168,000.00</b>

<b>D. DESIGN &amp; ADMINISTRATION</b>				
84	HRS	CONSTRUCTION OBSERVATIONS	65.00	5,460.00
	%	ENGINEERING FEES	15%	101,110.00
	%	AFUDC	0.25%	1,629.00
1	LS	LFUCG Permit Fee	250.00	250.00
<b>SUBTOTAL - DESIGN &amp; ADMINISTRATION</b>				<b>108,449.00</b>

**TOTAL ESTIMATED COST****\$928,010.00**



**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** **WEEKS:** 4

UNITS	UNIT		UNIT COST	ESTIMATED COST
<b>A. MATERIALS</b>				
0	LF	6" D.I.	40.00	0.00
0	LF	8" D.I.	50.00	0.00
0	LF	10" D.I.	60.00	0.00
0	LF	12" D.I.	85.00	0.00
0	EA	6" MJ GATE VALVE	550.00	0.00
0	EA	8" MJ GATE VALVE	700.00	0.00
0	EA	10" MJ GATE VALVE	1,050.00	0.00
0	EA	12" MJ GATE VALVE	1,300.00	0.00
0	EA	8" TAPPING VALVE/SLEEVE	1,100.00	0.00
0	EA	10" TAPPING VALVE/SLEEVE	900.00	0.00
0	EA	12" TAPPING VALVE/SLEEVE	1,300.00	0.00
0	EA	16" TAPPING VALVE/SLEEVE	1,400.00	0.00
22	EA	SHORT SERVICE (NON-LEAD)	250.00	5,500.00
22	EA	LONG SERVICE (NON-LEAD)	325.00	7,150.00
0	EA	SHORT SERVICE (LEAD)	400.00	0.00
0	EA	LONG SERVICE (LEAD)	500.00	0.00
0	EA	HYDRANT ASSEMBLY	2,500.00	0.00
0	EA	BLOWOFF ASSEMBLY	400.00	0.00
0	EA	LINESTOP	7,000.00	0.00
<b>SUBTOTAL - MATERIALS</b>				<b>12,650.00</b>

<b>B. INSTALLATION</b>				
1	LS	Trench Mobilization and Closeout	7,590.00	7,590.00
1	LS	Traffic Control	14,867.00	14,867.00
0	LF	Install Water Main: 4 inch	0.00	0.00
0	LF	Install Water Main: 6 inch	0.00	0.00
0	LF	Install Water Main: 8 inch	0.00	0.00
0	LF	Install Water Main: 12 inch	0.00	0.00
0	LF	Install Water Main: 16 inch	0.00	0.00
0	EA	Wet Tap ≤ 8 inch	0.00	0.00
0	EA	Wet Tap ≥ 10 inch	0.00	0.00
2	EA	Shut Down & Tie-In	4,737.00	9,474.00
2	EA	Cut & Cap Existing Water Main	3,529.00	7,058.00
0	EA	Line Stop (Excavation Only)	0.00	0.00
0	EA	4in Gate Valve and Box	0.00	0.00
0	EA	6in Gate Valve and Box	0.00	0.00
0	EA	8in Gate Valve and Box	0.00	0.00
0	EA	Blowoff Assembly	0.00	0.00
0	EA	Fire Hydrant Assembly	0.00	0.00
0	EA	Remove/Relocate Existing Hydrant	0.00	0.00
0	EA	Relocate Existing Meter	0.00	0.00
22	EA	New Long Service	3,298.00	72,556.00
22	EA	New Short Service	2,168.00	47,696.00

KENTUCKY AMERICAN WATER

DATE: 16-May-24

ESTIMATE FOR: Wilderness Road

WEEKS: 4

UNITS	UNIT		UNIT COST	ESTIMATED COST
<b>SUBTOTAL - INSTALLATION</b>				<b>159,241.00</b>

<b>C. RESTORATION</b>				
26,250	SF	Half Width Asphalt Paving	2.00	52,500.00
14,000	SF	Concrete Cap	10.00	140,000.00
<b>SUBTOTAL - RESTORATION</b>				<b>192,500.00</b>

<b>D. DESIGN &amp; ADMINISTRATION</b>				
48	HRS	CONSTRUCTION OBSERVATIONS	65.00	3,120.00
	%	ENGINEERING FEES	20%	70,348.20
	%	AFUDC	0.25%	398.00
1	LS	LFUCG Permit Fee	250.00	250.00
<b>SUBTOTAL - DESIGN &amp; ADMINISTRATION</b>				<b>74,116.20</b>

**TOTAL ESTIMATED COST****\$438,507.00**



**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** Uttinger Lane**WEEKS:** 6

UNITS	UNIT		UNIT COST	ESTIMATED COST
<b>A. MATERIALS</b>				
40	LF	6" D.I.	40.00	1,600.00
1,500	LF	8" D.I.	50.00	75,000.00
0	LF	10" D.I.	60.00	0.00
0	LF	12" D.I.	85.00	0.00
0	EA	6" MJ GATE VALVE	550.00	0.00
3	EA	8" MJ GATE VALVE	700.00	2,100.00
0	EA	10" MJ GATE VALVE	1,050.00	0.00
1	EA	12" MJ GATE VALVE	1,300.00	1,300.00
0	EA	8" TAPPING VALVE/SLEEVE	1,100.00	0.00
0	EA	10" TAPPING VALVE/SLEEVE	900.00	0.00
1	EA	12" TAPPING VALVE/SLEEVE	1,300.00	1,300.00
0	EA	16" TAPPING VALVE/SLEEVE	1,400.00	0.00
4	EA	SHORT SERVICE (NON-LEAD)	250.00	1,000.00
4	EA	LONG SERVICE (NON-LEAD)	325.00	1,300.00
0	EA	SHORT SERVICE (LEAD)	400.00	0.00
0	EA	LONG SERVICE (LEAD)	500.00	0.00
2	EA	HYDRANT ASSEMBLY	2,500.00	5,000.00
1	EA	BLOWOFF ASSEMBLY	400.00	400.00
0	EA	LINESTOP	7,000.00	0.00
<b>SUBTOTAL - MATERIALS</b>				<b>89,000.00</b>

<b>B. INSTALLATION</b>				
1	LS	Trench Mobilization and Closeout	8,000.00	8,000.00
1	LS	Traffic Control	2,500.00	2,500.00
0	LF	Install Water Main: 4 inch	0.00	0.00
40	LF	Install Water Main: 6 inch	75.00	3,000.00
1,500	LF	Install Water Main: 8 inch	75.00	112,500.00
0	LF	Install Water Main: 12 inch	0.00	0.00
0	LF	Install Water Main: 16 inch	0.00	0.00
0	EA	Wet Tap ≤ 8 inch	0.00	0.00
1	EA	Wet Tap ≥ 10 inch	7,008.00	7,008.00
0	EA	Shut Down & Tie-In	0.00	0.00
2	EA	Cut & Cap Existing Water Main	3,529.00	7,058.00
0	EA	Line Stop (Excavation Only)	0.00	0.00
0	EA	4in Gate Valve and Box	0.00	0.00
0	EA	6in Gate Valve and Box	0.00	0.00
3	EA	8in Gate Valve and Box	367.00	1,101.00
1	EA	Blowoff Assembly	990.00	990.00
2	EA	Fire Hydrant Assembly	1,967.00	3,934.00
0	EA	Remove/Relocate Existing Hydrant	0.00	0.00
0	EA	Relocate Existing Meter	0.00	0.00

**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** Uttinger Lane**WEEKS:** 6

UNITS	UNIT		UNIT COST	ESTIMATED COST
4	EA	New Long Service	3,298.00	13,192.00
4	EA	New Short Service	2,168.00	8,672.00
<b>SUBTOTAL - INSTALLATION</b>				<b>167,955.00</b>

<b>C. RESTORATION</b>				
33,000	SF	Curb-To-Curb Asphalt Paving	6.60	217,800.00
6,000	SF	Concrete Cap	10.00	60,000.00
<b>SUBTOTAL - RESTORATION</b>				<b>277,800.00</b>

<b>D. DESIGN &amp; ADMINISTRATION</b>				
72	HRS	CONSTRUCTION OBSERVATIONS	65.00	4,680.00
	%	ENGINEERING FEES	20%	89,151.00
	%	AFUDC	0.25%	420.00
1	LS	LFUCG Permit Fee	250.00	250.00
<b>SUBTOTAL - DESIGN &amp; ADMINISTRATION</b>				<b>94,501.00</b>

**TOTAL ESTIMATED COST****\$629,256.00**



**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** Columbus Lane**WEEKS:** 8

UNITS	UNIT		UNIT COST	ESTIMATED COST
<b>A. MATERIALS</b>				
60	LF	6" D.I.	40.00	2,400.00
2,300	LF	8" D.I.	50.00	115,000.00
0	LF	10" D.I.	60.00	0.00
0	LF	12" D.I.	85.00	0.00
0	EA	6" MJ GATE VALVE	550.00	0.00
5	EA	8" MJ GATE VALVE	700.00	3,500.00
0	EA	10" MJ GATE VALVE	1,050.00	0.00
1	EA	12" MJ GATE VALVE	1,300.00	1,300.00
0	EA	8" TAPPING VALVE/SLEEVE	1,100.00	0.00
0	EA	10" TAPPING VALVE/SLEEVE	900.00	0.00
1	EA	12" TAPPING VALVE/SLEEVE	1,300.00	1,300.00
0	EA	16" TAPPING VALVE/SLEEVE	1,400.00	0.00
2	EA	SHORT SERVICE (NON-LEAD)	250.00	500.00
2	EA	LONG SERVICE (NON-LEAD)	325.00	650.00
0	EA	SHORT SERVICE (LEAD)	400.00	0.00
0	EA	LONG SERVICE (LEAD)	500.00	0.00
3	EA	HYDRANT ASSEMBLY	2,500.00	7,500.00
1	EA	BLOWOFF ASSEMBLY	400.00	400.00
0	EA	LINESTOP	7,000.00	0.00
<b>SUBTOTAL - MATERIALS</b>				<b>132,550.00</b>

<b>B. INSTALLATION</b>				
1	LS	Trench Mobilization and Closeout	10,670.00	10,670.00
1	LS	Traffic Control	2,500.00	2,500.00
0	LF	Install Water Main: 4 inch	0.00	0.00
60	LF	Install Water Main: 6 inch	75.00	4,500.00
2,300	LF	Install Water Main: 8 inch	75.00	172,500.00
0	LF	Install Water Main: 12 inch	0.00	0.00
0	LF	Install Water Main: 16 inch	0.00	0.00
0	EA	Wet Tap ≤ 8 inch	0.00	0.00
1	EA	Wet Tap ≥ 10 inch	7,008.00	7,008.00
0	EA	Shut Down & Tie-In	0.00	0.00
2	EA	Cut & Cap Existing Water Main	3,529.00	7,058.00
0	EA	Line Stop (Excavation Only)	0.00	0.00
0	EA	4in Gate Valve and Box	0.00	0.00
0	EA	6in Gate Valve and Box	0.00	0.00
5	EA	8in Gate Valve and Box	367.00	1,835.00
1	EA	Blowoff Assembly	990.00	990.00
3	EA	Fire Hydrant Assembly	1,967.00	5,901.00
0	EA	Remove/Relocate Existing Hydrant	0.00	0.00
0	EA	Relocate Existing Meter	0.00	0.00

**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** Columbus Lane**WEEKS:** 8

UNITS	UNIT		UNIT COST	ESTIMATED COST
2	EA	New Long Service	3,298.00	6,596.00
2	EA	New Short Service	2,168.00	4,336.00
<b>SUBTOTAL - INSTALLATION</b>				<b>223,894.00</b>

<b>C. RESTORATION</b>				
37,950	SF	Curb-To-Curb Asphalt Paving	6.60	250,470.00
9,200	SF	Concrete Cap	10.00	92,000.00
<b>SUBTOTAL - RESTORATION</b>				<b>342,470.00</b>

<b>D. DESIGN &amp; ADMINISTRATION</b>				
96	HRS	CONSTRUCTION OBSERVATIONS	65.00	6,240.00
	%	ENGINEERING FEES	20%	113,272.80
	%	AFUDC	0.25%	560.00
1	LS	LFUCG Permit Fee	250.00	250.00
<b>SUBTOTAL - DESIGN &amp; ADMINISTRATION</b>				<b>120,322.80</b>

**TOTAL ESTIMATED COST****\$819,237.00**



**KENTUCKY AMERICAN WATER****ESTIMATE FOR:**

Williams Lane

**DATE:** 16-May-24**WEEKS:** 3

UNITS	UNIT		UNIT COST	ESTIMATED COST
<b>A. MATERIALS</b>				
60	LF	6" D.I.	40.00	2,400.00
100	LF	8" D.I.	50.00	5,000.00
0	LF	10" D.I.	60.00	0.00
0	LF	12" D.I.	85.00	0.00
0	EA	6" MJ GATE VALVE	550.00	0.00
0	EA	8" MJ GATE VALVE	700.00	0.00
0	EA	10" MJ GATE VALVE	1,050.00	0.00
0	EA	12" MJ GATE VALVE	1,300.00	0.00
0	EA	8" TAPPING VALVE/SLEEVE	1,100.00	0.00
0	EA	10" TAPPING VALVE/SLEEVE	900.00	0.00
0	EA	12" TAPPING VALVE/SLEEVE	1,300.00	0.00
0	EA	16" TAPPING VALVE/SLEEVE	1,400.00	0.00
1	EA	SHORT SERVICE (NON-LEAD)	250.00	250.00
1	EA	LONG SERVICE (NON-LEAD)	325.00	325.00
0	EA	SHORT SERVICE (LEAD)	400.00	0.00
0	EA	LONG SERVICE (LEAD)	500.00	0.00
3	EA	HYDRANT ASSEMBLY	2,500.00	7,500.00
1	EA	BLOWOFF ASSEMBLY	400.00	400.00
0	EA	LINESTOP	7,000.00	0.00
<b>SUBTOTAL - MATERIALS</b>				<b>15,875.00</b>

<b>B. INSTALLATION</b>				
1	LS	Trench Mobilization and Closeout	1,940.00	1,940.00
1	LS	Traffic Control	2,500.00	2,500.00
0	LF	Install Water Main: 4 inch	0.00	0.00
60	LF	Install Water Main: 6 inch	75.00	4,500.00
100	LF	Install Water Main: 8 inch	75.00	7,500.00
0	LF	Install Water Main: 12 inch	0.00	0.00
0	LF	Install Water Main: 16 inch	0.00	0.00
0	EA	Wet Tap ≤ 8 inch	0.00	0.00
0	EA	Wet Tap ≥ 10 inch	0.00	0.00
1	EA	Shut Down & Tie-In	4,737.00	4,737.00
2	EA	Cut & Cap Existing Water Main	3,529.00	7,058.00
0	EA	Line Stop (Excavation Only)	0.00	0.00
0	EA	4in Gate Valve and Box	0.00	0.00
0	EA	6in Gate Valve and Box	0.00	0.00
0	EA	8in Gate Valve and Box	0.00	0.00
1	EA	Blowoff Assembly	990.00	990.00
3	EA	Fire Hydrant Assembly	1,967.00	5,901.00
0	EA	Remove/Relocate Existing Hydrant	0.00	0.00
0	EA	Relocate Existing Meter	0.00	0.00

**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** Williams Lane**WEEKS:** 3

UNITS	UNIT		UNIT COST	ESTIMATED COST
1	EA	New Long Service	3,298.00	3,298.00
1	EA	New Short Service	2,168.00	2,168.00
<b>SUBTOTAL - INSTALLATION</b>				<b>40,592.00</b>

<b>C. RESTORATION</b>				
1,650	SF	Curb-To-Curb Asphalt Paving	6.60	10,890.00
400	SF	Concrete Cap	10.00	4,000.00
<b>SUBTOTAL - RESTORATION</b>				<b>14,890.00</b>

<b>D. DESIGN &amp; ADMINISTRATION</b>				
36	HRS	CONSTRUCTION OBSERVATIONS	65.00	2,340.00
	%	ENGINEERING FEES	10%	5,548.20
	%	AFUDC	0.25%	101.00
1	LS	LFUCG Permit Fee	250.00	250.00
<b>SUBTOTAL - DESIGN &amp; ADMINISTRATION</b>				<b>8,239.20</b>

**TOTAL ESTIMATED COST****\$79,596.00**



**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** Adena Lane**WEEKS:** 4

UNITS	UNIT		UNIT COST	ESTIMATED COST
<b>A. MATERIALS</b>				
40	LF	6" D.I.	40.00	1,600.00
800	LF	8" D.I.	50.00	40,000.00
0	LF	10" D.I.	60.00	0.00
0	LF	12" D.I.	85.00	0.00
0	EA	6" MJ GATE VALVE	550.00	0.00
2	EA	8" MJ GATE VALVE	700.00	1,400.00
0	EA	10" MJ GATE VALVE	1,050.00	0.00
0	EA	12" MJ GATE VALVE	1,300.00	0.00
0	EA	8" TAPPING VALVE/SLEEVE	1,100.00	0.00
0	EA	10" TAPPING VALVE/SLEEVE	900.00	0.00
0	EA	12" TAPPING VALVE/SLEEVE	1,300.00	0.00
0	EA	16" TAPPING VALVE/SLEEVE	1,400.00	0.00
1	EA	SHORT SERVICE (NON-LEAD)	250.00	250.00
1	EA	LONG SERVICE (NON-LEAD)	325.00	325.00
0	EA	SHORT SERVICE (LEAD)	400.00	0.00
0	EA	LONG SERVICE (LEAD)	500.00	0.00
2	EA	HYDRANT ASSEMBLY	2,500.00	5,000.00
1	EA	BLOWOFF ASSEMBLY	400.00	400.00
0	EA	LINESTOP	7,000.00	0.00
<b>SUBTOTAL - MATERIALS</b>				<b>48,975.00</b>

<b>B. INSTALLATION</b>				
1	LS	Trench Mobilization and Closeout	3,770.00	3,770.00
1	LS	Traffic Control	2,372.00	2,372.00
0	LF	Install Water Main: 4 inch	0.00	0.00
40	LF	Install Water Main: 6 inch	50.00	2,000.00
800	LF	Install Water Main: 8 inch	60.00	48,000.00
0	LF	Install Water Main: 12 inch	0.00	0.00
0	LF	Install Water Main: 16 inch	0.00	0.00
0	EA	Wet Tap ≤ 8 inch	0.00	0.00
0	EA	Wet Tap ≥ 10 inch	0.00	0.00
1	EA	Shut Down & Tie-In	4,737.00	4,737.00
2	EA	Cut & Cap Existing Water Main	3,529.00	7,058.00
0	EA	Line Stop (Excavation Only)	0.00	0.00
0	EA	4in Gate Valve and Box	0.00	0.00
0	EA	6in Gate Valve and Box	0.00	0.00
2	EA	8in Gate Valve and Box	367.00	734.00
1	EA	Blowoff Assembly	990.00	990.00
2	EA	Fire Hydrant Assembly	1,967.00	3,934.00
0	EA	Remove/Relocate Existing Hydrant	0.00	0.00
0	EA	Relocate Existing Meter	0.00	0.00

**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** Adena Lane**WEEKS:** 4

UNITS	UNIT		UNIT COST	ESTIMATED COST
1	EA	New Long Service	3,298.00	3,298.00
1	EA	New Short Service	2,168.00	2,168.00
<b>SUBTOTAL - INSTALLATION</b>				<b>79,061.00</b>

<b>C. RESTORATION</b>				
13,200	SF	Curb-To-Curb Asphalt Paving	6.60	87,120.00
3,200	SF	Concrete Cap	10.00	32,000.00
<b>SUBTOTAL - RESTORATION</b>				<b>119,120.00</b>

<b>D. DESIGN &amp; ADMINISTRATION</b>				
48	HRS	CONSTRUCTION OBSERVATIONS	65.00	3,120.00
	%	ENGINEERING FEES	20%	39,636.20
	%	AFUDC	0.25%	198.00
1	LS	LFUCG Permit Fee	250.00	250.00
<b>SUBTOTAL - DESIGN &amp; ADMINISTRATION</b>				<b>43,204.20</b>

**TOTAL ESTIMATED COST****\$290,360.00**



**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** Georgetown Road (south of Berea Road)**WEEKS:** 2

UNITS	UNIT		UNIT COST	ESTIMATED COST
<b>A. MATERIALS</b>				
0	LF	6" D.I.	40.00	0.00
0	LF	8" D.I.	50.00	0.00
0	LF	10" D.I.	60.00	0.00
0	LF	12" D.I.	85.00	0.00
0	EA	6" MJ GATE VALVE	550.00	0.00
0	EA	8" MJ GATE VALVE	700.00	0.00
0	EA	10" MJ GATE VALVE	1,050.00	0.00
0	EA	12" MJ GATE VALVE	1,300.00	0.00
0	EA	8" TAPPING VALVE/SLEEVE	1,100.00	0.00
0	EA	10" TAPPING VALVE/SLEEVE	900.00	0.00
0	EA	12" TAPPING VALVE/SLEEVE	1,300.00	0.00
0	EA	16" TAPPING VALVE/SLEEVE	1,400.00	0.00
1	EA	SHORT SERVICE (NON-LEAD)	250.00	250.00
1	EA	LONG SERVICE (NON-LEAD)	325.00	325.00
0	EA	SHORT SERVICE (LEAD)	400.00	0.00
0	EA	LONG SERVICE (LEAD)	500.00	0.00
0	EA	HYDRANT ASSEMBLY	2,500.00	0.00
0	EA	BLOWOFF ASSEMBLY	400.00	0.00
0	EA	LINESTOP	7,000.00	0.00
<b>SUBTOTAL - MATERIALS</b>				<b>575.00</b>

<b>B. INSTALLATION</b>				
1	LS	Trench Mobilization and Closeout	1,450.00	1,450.00
1	LS	Traffic Control	14,867.00	14,867.00
0	LF	Install Water Main: 4 inch	0.00	0.00
0	LF	Install Water Main: 6 inch	0.00	0.00
0	LF	Install Water Main: 8 inch	0.00	0.00
0	LF	Install Water Main: 12 inch	0.00	0.00
0	LF	Install Water Main: 16 inch	0.00	0.00
0	EA	Wet Tap ≤ 8 inch	0.00	0.00
0	EA	Wet Tap ≥ 10 inch	0.00	0.00
0	EA	Shut Down & Tie-In	0.00	0.00
2	EA	Cut & Cap Existing Water Main	3,529.00	7,058.00
0	EA	Line Stop (Excavation Only)	0.00	0.00
0	EA	4in Gate Valve and Box	0.00	0.00
0	EA	6in Gate Valve and Box	0.00	0.00
0	EA	8in Gate Valve and Box	0.00	0.00
0	EA	Blowoff Assembly	0.00	0.00
0	EA	Fire Hydrant Assembly	0.00	0.00
0	EA	Remove/Relocate Existing Hydrant	0.00	0.00
0	EA	Relocate Existing Meter	0.00	0.00

**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** Georgetown Road (south of Berea Road)**WEEKS:** 2

UNITS	UNIT		UNIT COST	ESTIMATED COST
1	EA	New Long Service	4,000.00	4,000.00
1	EA	New Short Service	3,000.00	3,000.00
<b>SUBTOTAL - INSTALLATION</b>				<b>30,375.00</b>

<b>C. RESTORATION</b>				
2,000	SF	Curb-To-Curb Asphalt Paving	6.60	13,200.00
0	SF	Concrete Cap	10.00	0.00
<b>SUBTOTAL - RESTORATION</b>				<b>13,200.00</b>

<b>D. DESIGN &amp; ADMINISTRATION</b>				
20	HRS	CONSTRUCTION OBSERVATIONS	65.00	1,300.00
	%	ENGINEERING FEES	20%	8,715.00
	%	AFUDC	0.25%	76.00
1	LS	LFUCG Permit Fee	250.00	250.00
<b>SUBTOTAL - DESIGN &amp; ADMINISTRATION</b>				<b>10,341.00</b>

**TOTAL ESTIMATED COST****\$54,491.00**



**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** Devine Avenue**WEEKS:** 3

UNITS	UNIT		UNIT COST	ESTIMATED COST
<b>A. MATERIALS</b>				
20	LF	6" D.I.	40.00	800.00
300	LF	8" D.I.	50.00	15,000.00
0	LF	10" D.I.	60.00	0.00
0	LF	12" D.I.	85.00	0.00
0	EA	6" MJ GATE VALVE	550.00	0.00
1	EA	8" MJ GATE VALVE	700.00	700.00
0	EA	10" MJ GATE VALVE	1,050.00	0.00
0	EA	12" MJ GATE VALVE	1,300.00	0.00
0	EA	8" TAPPING VALVE/SLEEVE	1,100.00	0.00
0	EA	10" TAPPING VALVE/SLEEVE	900.00	0.00
0	EA	12" TAPPING VALVE/SLEEVE	1,300.00	0.00
0	EA	16" TAPPING VALVE/SLEEVE	1,400.00	0.00
4	EA	SHORT SERVICE (NON-LEAD)	250.00	1,000.00
4	EA	LONG SERVICE (NON-LEAD)	325.00	1,300.00
0	EA	SHORT SERVICE (LEAD)	400.00	0.00
0	EA	LONG SERVICE (LEAD)	500.00	0.00
1	EA	HYDRANT ASSEMBLY	2,500.00	2,500.00
1	EA	BLOWOFF ASSEMBLY	400.00	400.00
0	EA	LINESTOP	7,000.00	0.00
<b>SUBTOTAL - MATERIALS</b>				<b>21,700.00</b>

<b>B. INSTALLATION</b>				
1	LS	Trench Mobilization and Closeout	4,360.00	4,360.00
1	LS	Traffic Control	14,867.00	14,867.00
0	LF	Install Water Main: 4 inch	0.00	0.00
20	LF	Install Water Main: 6 inch	131.00	2,620.00
300	LF	Install Water Main: 8 inch	107.00	32,100.00
0	LF	Install Water Main: 12 inch	0.00	0.00
0	LF	Install Water Main: 16 inch	0.00	0.00
0	EA	Wet Tap ≤ 8 inch	0.00	0.00
0	EA	Wet Tap ≥ 10 inch	0.00	0.00
1	EA	Shut Down & Tie-In	4,737.00	4,737.00
2	EA	Cut & Cap Existing Water Main	3,529.00	7,058.00
0	EA	Line Stop (Excavation Only)	0.00	0.00
0	EA	4in Gate Valve and Box	0.00	0.00
0	EA	6in Gate Valve and Box	0.00	0.00
1	EA	8in Gate Valve and Box	367.00	367.00
1	EA	Blowoff Assembly	990.00	990.00
1	EA	Fire Hydrant Assembly	1,967.00	1,967.00
1	EA	Remove/Relocate Existing Hydrant	544.00	544.00
0	EA	Relocate Existing Meter	0.00	0.00

**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** Devine Avenue**WEEKS:** 3

UNITS	UNIT		UNIT COST	ESTIMATED COST
4	EA	New Long Service	3,298.00	13,192.00
4	EA	New Short Service	2,168.00	8,672.00
<b>SUBTOTAL - INSTALLATION</b>				<b>91,474.00</b>

<b>C. RESTORATION</b>				
4,950	SF	Curb-To-Curb Asphalt Paving	2.00	9,900.00
1,200	SF	Concrete Cap	10.00	12,000.00
<b>SUBTOTAL - RESTORATION</b>				<b>21,900.00</b>

<b>D. DESIGN &amp; ADMINISTRATION</b>				
36	HRS	CONSTRUCTION OBSERVATIONS	65.00	2,340.00
	%	ENGINEERING FEES	20%	22,674.80
	%	AFUDC	0.25%	229.00
1	LS	LFUCG Permit Fee	250.00	250.00
<b>SUBTOTAL - DESIGN &amp; ADMINISTRATION</b>				<b>25,493.80</b>

**TOTAL ESTIMATED COST****\$160,568.00**



**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** Johnson Aly**WEEKS:** 3

UNITS	UNIT		UNIT COST	ESTIMATED COST
<b>A. MATERIALS</b>				
0	LF	6" D.I.	40.00	0.00
250	LF	8" D.I.	50.00	12,500.00
0	LF	10" D.I.	60.00	0.00
0	LF	12" D.I.	85.00	0.00
0	EA	6" MJ GATE VALVE	550.00	0.00
1	EA	8" MJ GATE VALVE	700.00	700.00
0	EA	10" MJ GATE VALVE	1,050.00	0.00
0	EA	12" MJ GATE VALVE	1,300.00	0.00
0	EA	8" TAPPING VALVE/SLEEVE	1,100.00	0.00
0	EA	10" TAPPING VALVE/SLEEVE	900.00	0.00
0	EA	12" TAPPING VALVE/SLEEVE	1,300.00	0.00
0	EA	16" TAPPING VALVE/SLEEVE	1,400.00	0.00
1	EA	SHORT SERVICE (NON-LEAD)	250.00	250.00
1	EA	LONG SERVICE (NON-LEAD)	325.00	325.00
0	EA	SHORT SERVICE (LEAD)	400.00	0.00
0	EA	LONG SERVICE (LEAD)	500.00	0.00
0	EA	HYDRANT ASSEMBLY	2,500.00	0.00
0	EA	BLOWOFF ASSEMBLY	400.00	0.00
0	EA	LINESTOP	7,000.00	0.00
<b>SUBTOTAL - MATERIALS</b>				<b>13,775.00</b>

<b>B. INSTALLATION</b>				
1	LS	Trench Mobilization and Closeout	1,950.00	1,950.00
1	LS	Traffic Control	2,500.00	2,500.00
0	LF	Install Water Main: 4 inch	0.00	0.00
0	LF	Install Water Main: 6 inch	75.00	0.00
250	LF	Install Water Main: 8 inch	75.00	18,750.00
0	LF	Install Water Main: 12 inch	0.00	0.00
0	LF	Install Water Main: 16 inch	0.00	0.00
0	EA	Wet Tap ≤ 8 inch	0.00	0.00
0	EA	Wet Tap ≥ 10 inch	0.00	0.00
1	EA	Shut Down & Tie-In	4,737.00	4,737.00
2	EA	Cut & Cap Existing Water Main	3,529.00	7,058.00
0	EA	Line Stop (Excavation Only)	0.00	0.00
0	EA	4in Gate Valve and Box	0.00	0.00
0	EA	6in Gate Valve and Box	0.00	0.00
1	EA	8in Gate Valve and Box	367.00	367.00
0	EA	Blowoff Assembly	0.00	0.00
0	EA	Fire Hydrant Assembly	0.00	0.00
0	EA	Remove/Relocate Existing Hydrant	0.00	0.00
0	EA	Relocate Existing Meter	0.00	0.00

**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** Johnson Aly**WEEKS:** 3

UNITS	UNIT		UNIT COST	ESTIMATED COST
1	EA	New Long Service	3,298.00	3,298.00
1	EA	New Short Service	2,168.00	2,168.00
<b>SUBTOTAL - INSTALLATION</b>				<b>40,828.00</b>

<b>C. RESTORATION</b>				
4,125	SF	Curb-To-Curb Asphalt Paving	6.60	27,225.00
1,000	SF	Concrete Cap	10.00	10,000.00
<b>SUBTOTAL - RESTORATION</b>				<b>37,225.00</b>

<b>D. DESIGN &amp; ADMINISTRATION</b>				
36	HRS	CONSTRUCTION OBSERVATIONS	65.00	2,340.00
	%	ENGINEERING FEES	20%	15,610.60
	%	AFUDC	0.25%	102.00
1	LS	LFUCG Permit Fee	250.00	250.00
<b>SUBTOTAL - DESIGN &amp; ADMINISTRATION</b>				<b>18,302.60</b>

**TOTAL ESTIMATED COST****\$110,131.00**



**KENTUCKY AMERICAN WATER**  
**ESTIMATE FOR:** Preston Avenue

**DATE:** 16-May-24  
**WEEKS:** 8

UNITS	UNIT		UNIT COST	ESTIMATED COST
<b>A. MATERIALS</b>				
60	LF	6" D.I.	40.00	2,400.00
2,200	LF	8" D.I.	50.00	110,000.00
0	LF	10" D.I.	60.00	0.00
0	LF	12" D.I.	85.00	0.00
0	EA	6" MJ GATE VALVE	550.00	0.00
9	EA	8" MJ GATE VALVE	700.00	6,300.00
0	EA	10" MJ GATE VALVE	1,050.00	0.00
1	EA	12" MJ GATE VALVE	1,300.00	1,300.00
0	EA	8" TAPPING VALVE/SLEEVE	1,100.00	0.00
0	EA	10" TAPPING VALVE/SLEEVE	900.00	0.00
1	EA	12" TAPPING VALVE/SLEEVE	1,300.00	1,300.00
0	EA	16" TAPPING VALVE/SLEEVE	1,400.00	0.00
35	EA	SHORT SERVICE (NON-LEAD)	250.00	8,750.00
35	EA	LONG SERVICE (NON-LEAD)	325.00	11,375.00
0	EA	SHORT SERVICE (LEAD)	400.00	0.00
0	EA	LONG SERVICE (LEAD)	500.00	0.00
3	EA	HYDRANT ASSEMBLY	2,500.00	7,500.00
0	EA	BLOWOFF ASSEMBLY	400.00	0.00
0	EA	LINESTOP	7,000.00	0.00
<b>SUBTOTAL - MATERIALS</b>				<b>148,925.00</b>

<b>B. INSTALLATION</b>				
1	LS	Trench Mobilization and Closeout	20,770.00	20,770.00
1	LS	Traffic Control	6,000.00	6,000.00
0	LF	Install Water Main: 4 inch	0.00	0.00
60	LF	Install Water Main: 6 inch	90.00	5,400.00
2,200	LF	Install Water Main: 8 inch	90.00	198,000.00
0	LF	Install Water Main: 12 inch	0.00	0.00
0	LF	Install Water Main: 16 inch	0.00	0.00
0	EA	Wet Tap ≤ 8 inch	0.00	0.00
1	EA	Wet Tap ≥ 10 inch	7,008.00	7,008.00
2	EA	Shut Down & Tie-In	4,737.00	9,474.00
6	EA	Cut & Cap Existing Water Main	3,529.00	21,174.00
0	EA	Line Stop (Excavation Only)	0.00	0.00
0	EA	4in Gate Valve and Box	0.00	0.00
0	EA	6in Gate Valve and Box	0.00	0.00
9	EA	8in Gate Valve and Box	367.00	3,303.00
0	EA	Blowoff Assembly	0.00	0.00
3	EA	Fire Hydrant Assembly	1,967.00	5,901.00
3	EA	Remove/Relocate Existing Hydrant	544.00	1,632.00
0	EA	Relocate Existing Meter	0.00	0.00

**KENTUCKY AMERICAN WATER**  
**ESTIMATE FOR:** Preston Avenue

**DATE:** 16-May-24  
**WEEKS:** 8

UNITS	UNIT		UNIT COST	ESTIMATED COST
35	EA	New Long Service	2,500.00	87,500.00
35	EA	New Short Service	2,000.00	70,000.00
<b>SUBTOTAL - INSTALLATION</b>				<b>436,162.00</b>

<b>C. RESTORATION</b>				
72,600	SF	Curb-To-Curb Asphalt Paving	2.00	145,200.00
8,800	SF	Concrete Cap	10.00	88,000.00
<b>SUBTOTAL - RESTORATION</b>				<b>233,200.00</b>

<b>D. DESIGN &amp; ADMINISTRATION</b>				
96	HRS	CONSTRUCTION OBSERVATIONS	65.00	6,240.00
	%	ENGINEERING FEES	20%	133,880.00
	%	AFUDC	0.25%	1,463.00
1	LS	LFUCG Permit Fee	250.00	250.00
<b>SUBTOTAL - DESIGN &amp; ADMINISTRATION</b>				<b>141,833.00</b>

**TOTAL ESTIMATED COST**

**\$960,120.00**



**KENTUCKY AMERICAN WATER**  
**ESTIMATE FOR:** Willowlawn Avenue

**DATE:** 23-May-24  
**WEEKS:** 3

UNITS	UNIT		UNIT COST	ESTIMATED COST
<b>A. MATERIALS</b>				
20	LF	6" D.I.	40.00	800.00
200	LF	8" D.I.	50.00	10,000.00
0	LF	10" D.I.	60.00	0.00
0	LF	12" D.I.	85.00	0.00
0	EA	6" MJ GATE VALVE	550.00	0.00
0	EA	8" MJ GATE VALVE	700.00	0.00
0	EA	10" MJ GATE VALVE	1,050.00	0.00
0	EA	12" MJ GATE VALVE	1,300.00	0.00
0	EA	8" TAPPING VALVE/SLEEVE	1,100.00	0.00
0	EA	10" TAPPING VALVE/SLEEVE	900.00	0.00
0	EA	12" TAPPING VALVE/SLEEVE	1,300.00	0.00
0	EA	16" TAPPING VALVE/SLEEVE	1,400.00	0.00
1	EA	SHORT SERVICE (NON-LEAD)	250.00	250.00
1	EA	LONG SERVICE (NON-LEAD)	325.00	325.00
0	EA	SHORT SERVICE (LEAD)	400.00	0.00
0	EA	LONG SERVICE (LEAD)	500.00	0.00
1	EA	HYDRANT ASSEMBLY	2,500.00	2,500.00
1	EA	BLOWOFF ASSEMBLY	400.00	400.00
0	EA	LINESTOP	7,000.00	0.00
<b>SUBTOTAL - MATERIALS</b>				<b>14,275.00</b>

<b>B. INSTALLATION</b>				
1	LS	Trench Mobilization and Closeout	2,060.00	2,060.00
1	LS	Traffic Control	3,000.00	3,000.00
0	LF	Install Water Main: 4 inch	0.00	0.00
0	LF	Install Water Main: 6 inch	0.00	0.00
200	LF	Install Water Main: 8 inch	107.00	21,400.00
0	LF	Install Water Main: 12 inch	0.00	0.00
0	LF	Install Water Main: 16 inch	0.00	0.00
0	EA	Wet Tap ≤ 8 inch	0.00	0.00
0	EA	Wet Tap ≥ 10 inch	0.00	0.00
1	EA	Shut Down & Tie-In	4,737.00	4,737.00
1	EA	Cut & Cap Existing Water Main	3,529.00	3,529.00
0	EA	Line Stop (Excavation Only)	0.00	0.00
0	EA	4in Gate Valve and Box	0.00	0.00
0	EA	6in Gate Valve and Box	0.00	0.00
0	EA	8in Gate Valve and Box	0.00	0.00
1	EA	Blowoff Assembly	990.00	990.00
1	EA	Fire Hydrant Assembly	1,967.00	1,967.00
0	EA	Remove/Relocate Existing Hydrant	0.00	0.00
0	EA	Relocate Existing Meter	0.00	0.00

**KENTUCKY AMERICAN WATER**  
**ESTIMATE FOR:** Willowlawn Avenue

**DATE:** 23-May-24  
**WEEKS:** 3

UNITS	UNIT		UNIT COST	ESTIMATED COST
1	EA	New Long Service	3,298.00	3,298.00
1	EA	New Short Service	2,168.00	2,168.00
<b>SUBTOTAL - INSTALLATION</b>				<b>43,149.00</b>

<b>C. RESTORATION</b>				
3,300	SF	Curb-To-Curb Asphalt Paving	4.38	14,454.00
800	SF	Concrete Cap	10.00	8,000.00
<b>SUBTOTAL - RESTORATION</b>				<b>22,454.00</b>

<b>D. DESIGN &amp; ADMINISTRATION</b>				
36	HRS	CONSTRUCTION OBSERVATIONS	65.00	2,340.00
	%	ENGINEERING FEES	20%	13,120.60
	%	AFUDC	0.25%	108.00
1	LS	LFUCG Permit Fee	250.00	250.00
<b>SUBTOTAL - DESIGN &amp; ADMINISTRATION</b>				<b>15,818.60</b>

**TOTAL ESTIMATED COST**

**\$95,697.00**



**KENTUCKY AMERICAN WATER**  
**ESTIMATE FOR:** Whispering Wood Lane

**DATE:** 23-May-24  
**WEEKS:** 4

UNITS	UNIT		UNIT COST	ESTIMATED COST
<b>A. MATERIALS</b>				
20	LF	6" D.I.	40.00	800.00
550	LF	8" D.I.	50.00	27,500.00
0	LF	10" D.I.	60.00	0.00
0	LF	12" D.I.	85.00	0.00
0	EA	6" MJ GATE VALVE	550.00	0.00
0	EA	8" MJ GATE VALVE	700.00	0.00
0	EA	10" MJ GATE VALVE	1,050.00	0.00
0	EA	12" MJ GATE VALVE	1,300.00	0.00
1	EA	6" TAPPING VALVE/SLEEVE	1,100.00	1,100.00
0	EA	10" TAPPING VALVE/SLEEVE	900.00	0.00
0	EA	12" TAPPING VALVE/SLEEVE	1,300.00	0.00
0	EA	16" TAPPING VALVE/SLEEVE	1,400.00	0.00
0	EA	SHORT SERVICE (NON-LEAD)	250.00	0.00
3	EA	LONG SERVICE (NON-LEAD)	325.00	975.00
0	EA	SHORT SERVICE (LEAD)	400.00	0.00
0	EA	LONG SERVICE (LEAD)	500.00	0.00
1	EA	HYDRANT ASSEMBLY	2,500.00	2,500.00
1	EA	BLOWOFF ASSEMBLY	400.00	400.00
0	EA	LINESTOP	7,000.00	0.00
<b>SUBTOTAL - MATERIALS</b>				<b>33,275.00</b>

<b>B. INSTALLATION</b>				
1	LS	Trench Mobilization and Closeout	5,345.00	5,345.00
1	LS	Traffic Control	3,000.00	3,000.00
0	LF	Install Water Main: 4 inch	0.00	0.00
0	LF	Install Water Main: 6 inch	0.00	0.00
550	LF	Install Water Main: 8 inch	107.00	58,850.00
0	LF	Install Water Main: 12 inch	0.00	0.00
0	LF	Install Water Main: 16 inch	0.00	0.00
1	EA	Wet Tap ≤ 8 inch	5,117.00	5,117.00
0	EA	Wet Tap ≥ 10 inch	0.00	0.00
1	EA	Shut Down & Tie-In	4,737.00	4,737.00
1	EA	Cut & Cap Existing Water Main	3,529.00	3,529.00
0	EA	Line Stop (Excavation Only)	0.00	0.00
0	EA	4in Gate Valve and Box	0.00	0.00
1	EA	6in Gate Valve and Box	333.00	333.00
0	EA	8in Gate Valve and Box	0.00	0.00
1	EA	Blowoff Assembly	990.00	990.00
1	EA	Fire Hydrant Assembly	1,967.00	1,967.00
0	EA	Remove/Relocate Existing Hydrant	0.00	0.00
0	EA	Relocate Existing Meter	0.00	0.00

**KENTUCKY AMERICAN WATER**  
**ESTIMATE FOR:** Whispering Wood Lane

**DATE:** 23-May-24  
**WEEKS:** 4

UNITS	UNIT		UNIT COST	ESTIMATED COST
0	EA	New Long Service	0.00	0.00
3	EA	New Short Service	2,168.00	6,504.00
<b>SUBTOTAL - INSTALLATION</b>				<b>90,372.00</b>

<b>C. RESTORATION</b>				
9,075	SF	Curb-To-Curb Asphalt Paving	4.38	39,749.00
2,200	SF	Concrete Cap	10.00	22,000.00
<b>SUBTOTAL - RESTORATION</b>				<b>61,749.00</b>

<b>D. DESIGN &amp; ADMINISTRATION</b>				
48	HRS	CONSTRUCTION OBSERVATIONS	65.00	3,120.00
	%	ENGINEERING FEES	20%	30,424.20
	%	AFUDC	0.25%	226.00
1	LS	LFUCG Permit Fee	250.00	250.00
<b>SUBTOTAL - DESIGN &amp; ADMINISTRATION</b>				<b>34,020.20</b>

**TOTAL ESTIMATED COST**

**\$219,416.00**



**KENTUCKY AMERICAN WATER**  
**ESTIMATE FOR:** McCubbing Drive

**DATE:** 16-May-24  
**WEEKS:** 5

UNITS	UNIT		UNIT COST	ESTIMATED COST
<b>A. MATERIALS</b>				
20	LF	6" D.I.	40.00	800.00
650	LF	8" D.I.	50.00	32,500.00
0	LF	10" D.I.	60.00	0.00
0	LF	12" D.I.	85.00	0.00
0	EA	6" MJ GATE VALVE	550.00	0.00
1	EA	8" MJ GATE VALVE	700.00	700.00
0	EA	10" MJ GATE VALVE	1,050.00	0.00
0	EA	12" MJ GATE VALVE	1,300.00	0.00
0	EA	8" TAPPING VALVE/SLEEVE	1,100.00	0.00
0	EA	10" TAPPING VALVE/SLEEVE	900.00	0.00
0	EA	12" TAPPING VALVE/SLEEVE	1,300.00	0.00
0	EA	16" TAPPING VALVE/SLEEVE	1,400.00	0.00
9	EA	SHORT SERVICE (NON-LEAD)	250.00	2,250.00
9	EA	LONG SERVICE (NON-LEAD)	325.00	2,925.00
0	EA	SHORT SERVICE (LEAD)	400.00	0.00
0	EA	LONG SERVICE (LEAD)	500.00	0.00
1	EA	HYDRANT ASSEMBLY	2,500.00	2,500.00
0	EA	BLOWOFF ASSEMBLY	400.00	0.00
0	EA	LINESTOP	7,000.00	0.00
<b>SUBTOTAL - MATERIALS</b>				<b>41,675.00</b>

<b>B. INSTALLATION</b>				
1	LS	Trench Mobilization and Closeout	7,150.00	7,150.00
1	LS	Traffic Control	3,640.00	3,640.00
0	LF	Install Water Main: 4 inch	0.00	0.00
20	LF	Install Water Main: 6 inch	130.00	2,600.00
650	LF	Install Water Main: 8 inch	110.00	71,500.00
0	LF	Install Water Main: 12 inch	0.00	0.00
0	LF	Install Water Main: 16 inch	0.00	0.00
0	EA	Wet Tap ≤ 8 inch	0.00	0.00
0	EA	Wet Tap ≥ 10 inch	0.00	0.00
2	EA	Shut Down & Tie-In	4,737.00	9,474.00
1	EA	Cut & Cap Existing Water Main	3,529.00	3,529.00
0	EA	Line Stop (Excavation Only)	0.00	0.00
0	EA	4in Gate Valve and Box	0.00	0.00
0	EA	6in Gate Valve and Box	0.00	0.00
1	EA	8in Gate Valve and Box	367.00	367.00
0	EA	Blowoff Assembly	0.00	0.00
1	EA	Fire Hydrant Assembly	1,967.00	1,967.00
1	EA	Remove/Relocate Existing Hydrant	544.00	544.00
0	EA	Relocate Existing Meter	0.00	0.00

**KENTUCKY AMERICAN WATER**  
**ESTIMATE FOR:** McCubbing Drive

**DATE:** 16-May-24  
**WEEKS:** 5

UNITS	UNIT		UNIT COST	ESTIMATED COST
9	EA	New Long Service	3,298.00	29,682.00
9	EA	New Short Service	2,168.00	19,512.00
<b>SUBTOTAL - INSTALLATION</b>				<b>149,965.00</b>

<b>C. RESTORATION</b>				
21,450	SF	Curb-To-Curb Asphalt Paving	2.00	42,900.00
2,600	SF	Concrete Cap	10.00	26,000.00
<b>SUBTOTAL - RESTORATION</b>				<b>68,900.00</b>

<b>D. DESIGN &amp; ADMINISTRATION</b>				
60	HRS	CONSTRUCTION OBSERVATIONS	65.00	3,900.00
	%	ENGINEERING FEES	20%	43,773.00
	%	AFUDC	0.25%	375.00
1	LS	LFUCG Permit Fee	250.00	250.00
<b>SUBTOTAL - DESIGN &amp; ADMINISTRATION</b>				<b>48,298.00</b>

**TOTAL ESTIMATED COST**

**\$308,838.00**



**KENTUCKY AMERICAN WATER**  
**ESTIMATE FOR:** Longview Drive

**DATE:** 16-May-24  
**WEEKS:** 6

UNITS	UNIT		UNIT COST	ESTIMATED COST
<b>A. MATERIALS</b>				
20	LF	6" D.I.	40.00	800.00
1,500	LF	8" D.I.	50.00	75,000.00
0	LF	10" D.I.	60.00	0.00
0	LF	12" D.I.	85.00	0.00
0	EA	6" MJ GATE VALVE	550.00	0.00
4	EA	8" MJ GATE VALVE	700.00	2,800.00
0	EA	10" MJ GATE VALVE	1,050.00	0.00
0	EA	12" MJ GATE VALVE	1,300.00	0.00
0	EA	8" TAPPING VALVE/SLEEVE	1,100.00	0.00
0	EA	10" TAPPING VALVE/SLEEVE	900.00	0.00
0	EA	12" TAPPING VALVE/SLEEVE	1,300.00	0.00
0	EA	16" TAPPING VALVE/SLEEVE	1,400.00	0.00
23	EA	SHORT SERVICE (NON-LEAD)	250.00	5,750.00
23	EA	LONG SERVICE (NON-LEAD)	325.00	7,475.00
0	EA	SHORT SERVICE (LEAD)	400.00	0.00
0	EA	LONG SERVICE (LEAD)	500.00	0.00
1	EA	HYDRANT ASSEMBLY	2,500.00	2,500.00
0	EA	BLOWOFF ASSEMBLY	400.00	0.00
1	EA	LINESTOP	7,000.00	7,000.00
<b>SUBTOTAL - MATERIALS</b>				<b>101,325.00</b>

<b>B. INSTALLATION</b>				
1	LS	Trench Mobilization and Closeout	16,300.00	16,300.00
1	LS	Traffic Control	6,000.00	6,000.00
0	LF	Install Water Main: 4 inch	0.00	0.00
20	LF	Install Water Main: 6 inch	131.00	2,620.00
1,500	LF	Install Water Main: 8 inch	107.00	160,500.00
0	LF	Install Water Main: 12 inch	0.00	0.00
0	LF	Install Water Main: 16 inch	0.00	0.00
0	EA	Wet Tap ≤ 8 inch	0.00	0.00
0	EA	Wet Tap ≥ 10 inch	0.00	0.00
2	EA	Shut Down & Tie-In	4,737.00	9,474.00
4	EA	Cut & Cap Existing Water Main	3,529.00	14,116.00
1	EA	Line Stop (Excavation Only)	3,529.00	3,529.00
0	EA	4in Gate Valve and Box	0.00	0.00
0	EA	6in Gate Valve and Box	0.00	0.00
4	EA	8in Gate Valve and Box	367.00	1,468.00
0	EA	Blowoff Assembly	0.00	0.00
1	EA	Fire Hydrant Assembly	1,967.00	1,967.00
1	EA	Remove/Relocate Existing Hydrant	544.00	544.00
0	EA	Relocate Existing Meter	0.00	0.00

**KENTUCKY AMERICAN WATER**  
**ESTIMATE FOR:** Longview Drive

**DATE:** 16-May-24  
**WEEKS:** 6

UNITS	UNIT		UNIT COST	ESTIMATED COST
23	EA	New Long Service	3,298.00	75,854.00
23	EA	New Short Service	2,168.00	49,864.00
<b>SUBTOTAL - INSTALLATION</b>				<b>342,236.00</b>

<b>C. RESTORATION</b>				
33,000	SF	Curb-To-Curb Asphalt Paving	2.00	66,000.00
6,000	SF	Concrete Cap	10.00	60,000.00
<b>SUBTOTAL - RESTORATION</b>				<b>126,000.00</b>

<b>D. DESIGN &amp; ADMINISTRATION</b>				
72	HRS	CONSTRUCTION OBSERVATIONS	65.00	4,680.00
	%	ENGINEERING FEES	15%	70,235.40
	%	AFUDC	0.25%	856.00
1	LS	LFUCG Permit Fee	250.00	250.00
<b>SUBTOTAL - DESIGN &amp; ADMINISTRATION</b>				<b>76,021.40</b>

**TOTAL ESTIMATED COST**

**\$645,582.00**



**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** Walton Avenue (Main to Booneboro)**WEEKS:** 6

UNITS	UNIT		UNIT COST	ESTIMATED COST
<b>A. MATERIALS</b>				
60	LF	6" D.I.	40.00	2,400.00
1,500	LF	8" D.I.	50.00	75,000.00
0	LF	10" D.I.	60.00	0.00
0	LF	12" D.I.	85.00	0.00
0	EA	6" MJ GATE VALVE	550.00	0.00
12	EA	8" MJ GATE VALVE	700.00	8,400.00
0	EA	10" MJ GATE VALVE	1,050.00	0.00
1	EA	12" MJ GATE VALVE	1,300.00	1,300.00
0	EA	8" TAPPING VALVE/SLEEVE	1,100.00	0.00
0	EA	10" TAPPING VALVE/SLEEVE	900.00	0.00
1	EA	12" TAPPING VALVE/SLEEVE	1,300.00	1,300.00
0	EA	16" TAPPING VALVE/SLEEVE	1,400.00	0.00
13	EA	SHORT SERVICE (NON-LEAD)	250.00	3,250.00
13	EA	LONG SERVICE (NON-LEAD)	325.00	4,225.00
0	EA	SHORT SERVICE (LEAD)	400.00	0.00
0	EA	LONG SERVICE (LEAD)	500.00	0.00
3	EA	HYDRANT ASSEMBLY	2,500.00	7,500.00
0	EA	BLOWOFF ASSEMBLY	400.00	0.00
1	EA	LINESTOP	7,000.00	7,000.00
<b>SUBTOTAL - MATERIALS</b>				<b>110,375.00</b>

<b>B. INSTALLATION</b>				
1	LS	Trench Mobilization and Closeout	18,250.00	18,250.00
1	LS	Traffic Control	30,000.00	30,000.00
0	LF	Install Water Main: 4 inch	0.00	0.00
60	LF	Install Water Main: 6 inch	131.00	7,860.00
1,500	LF	Install Water Main: 8 inch	107.00	160,500.00
0	LF	Install Water Main: 12 inch	0.00	0.00
0	LF	Install Water Main: 16 inch	0.00	0.00
0	EA	Wet Tap ≤ 8 inch	0.00	0.00
1	EA	Wet Tap ≥ 10 inch	7,008.00	7,008.00
5	EA	Shut Down & Tie-In	4,737.00	23,685.00
12	EA	Cut & Cap Existing Water Main	3,529.00	42,348.00
1	EA	Line Stop (Excavation Only)	3,529.00	3,529.00
0	EA	4in Gate Valve and Box	0.00	0.00
0	EA	6in Gate Valve and Box	0.00	0.00
12	EA	8in Gate Valve and Box	367.00	4,404.00
0	EA	Blowoff Assembly	0.00	0.00
3	EA	Fire Hydrant Assembly	1,967.00	5,901.00
3	EA	Remove/Relocate Existing Hydrant	544.00	1,632.00
0	EA	Relocate Existing Meter	0.00	0.00

**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** Walton Avenue (Main to Booneboro)**WEEKS:** 6

UNITS	UNIT		UNIT COST	ESTIMATED COST
13	EA	New Long Service	3,500.00	45,500.00
13	EA	New Short Service	2,500.00	32,500.00
<b>SUBTOTAL - INSTALLATION</b>				<b>383,117.00</b>

<b>C. RESTORATION</b>				
49,500	SF	Curb-To-Curb Asphalt Paving	2.00	99,000.00
6,000	SF	Concrete Cap	10.00	60,000.00
<b>SUBTOTAL - RESTORATION</b>				<b>159,000.00</b>

<b>D. DESIGN &amp; ADMINISTRATION</b>				
72	HRS	CONSTRUCTION OBSERVATIONS	65.00	4,680.00
	%	ENGINEERING FEES	10%	54,220.00
	%	AFUDC	0.25%	1,234.00
1	LS	LFUCG Permit Fee	250.00	250.00
<b>SUBTOTAL - DESIGN &amp; ADMINISTRATION</b>				<b>60,384.00</b>

**TOTAL ESTIMATED COST****\$712,876.00**



**KENTUCKY AMERICAN WATER**  
**ESTIMATE FOR:** Lexington Avenue

**DATE:** 16-May-24  
**WEEKS:** 5

UNITS	UNIT		UNIT COST	ESTIMATED COST
<b>A. MATERIALS</b>				
60	LF	6" D.I.	40.00	2,400.00
950	LF	8" D.I.	50.00	47,500.00
0	LF	10" D.I.	60.00	0.00
0	LF	12" D.I.	85.00	0.00
0	EA	6" MJ GATE VALVE	550.00	0.00
5	EA	8" MJ GATE VALVE	700.00	3,500.00
0	EA	10" MJ GATE VALVE	1,050.00	0.00
0	EA	12" MJ GATE VALVE	1,300.00	0.00
0	EA	8" TAPPING VALVE/SLEEVE	1,100.00	0.00
0	EA	10" TAPPING VALVE/SLEEVE	900.00	0.00
0	EA	12" TAPPING VALVE/SLEEVE	1,300.00	0.00
0	EA	16" TAPPING VALVE/SLEEVE	1,400.00	0.00
11	EA	SHORT SERVICE (NON-LEAD)	250.00	2,750.00
11	EA	LONG SERVICE (NON-LEAD)	325.00	3,575.00
0	EA	SHORT SERVICE (LEAD)	400.00	0.00
0	EA	LONG SERVICE (LEAD)	500.00	0.00
3	EA	HYDRANT ASSEMBLY	2,500.00	7,500.00
0	EA	BLOWOFF ASSEMBLY	400.00	0.00
0	EA	LINESTOP	7,000.00	0.00
<b>SUBTOTAL - MATERIALS</b>				<b>67,225.00</b>

<b>B. INSTALLATION</b>				
1	LS	Trench Mobilization and Closeout	10,630.00	10,630.00
1	LS	Traffic Control	15,000.00	15,000.00
0	LF	Install Water Main: 4 inch	0.00	0.00
60	LF	Install Water Main: 6 inch	131.00	7,860.00
950	LF	Install Water Main: 8 inch	107.00	101,650.00
0	LF	Install Water Main: 12 inch	0.00	0.00
0	LF	Install Water Main: 16 inch	0.00	0.00
0	EA	Wet Tap ≤ 8 inch	0.00	0.00
0	EA	Wet Tap ≥ 10 inch	0.00	0.00
2	EA	Shut Down & Tie-In	4,737.00	9,474.00
4	EA	Cut & Cap Existing Water Main	3,529.00	14,116.00
0	EA	Line Stop (Excavation Only)	0.00	0.00
0	EA	4in Gate Valve and Box	0.00	0.00
0	EA	6in Gate Valve and Box	0.00	0.00
5	EA	8in Gate Valve and Box	367.00	1,835.00
0	EA	Blowoff Assembly	0.00	0.00
3	EA	Fire Hydrant Assembly	1,967.00	5,901.00
3	EA	Remove/Relocate Existing Hydrant	544.00	1,632.00
0	EA	Relocate Existing Meter	0.00	0.00

**KENTUCKY AMERICAN WATER**  
**ESTIMATE FOR:** Lexington Avenue

**DATE:** 16-May-24  
**WEEKS:** 5

UNITS	UNIT		UNIT COST	ESTIMATED COST
11	EA	New Long Service	3,000.00	33,000.00
11	EA	New Short Service	2,000.00	22,000.00
<b>SUBTOTAL - INSTALLATION</b>				<b>223,098.00</b>

<b>C. RESTORATION</b>				
31,350	SF	Curb-To-Curb Asphalt Paving	6.60	206,910.00
3,800	SF	Concrete Cap	10.00	38,000.00
<b>SUBTOTAL - RESTORATION</b>				<b>244,910.00</b>

<b>D. DESIGN &amp; ADMINISTRATION</b>				
60	HRS	CONSTRUCTION OBSERVATIONS	65.00	3,900.00
	%	ENGINEERING FEES	10%	46,810.00
	%	AFUDC	0.25%	726.00
1	LS	LFUCG Permit Fee	250.00	250.00
<b>SUBTOTAL - DESIGN &amp; ADMINISTRATION</b>				<b>51,686.00</b>

**TOTAL ESTIMATED COST**

**\$586,919.00**



**KENTUCKY AMERICAN WATER**  
**ESTIMATE FOR:** Washington Avenue

**DATE:** 16-May-24  
**WEEKS:** 5

UNITS	UNIT		UNIT COST	ESTIMATED COST
<b>A. MATERIALS</b>				
60	LF	6" D.I.	40.00	2,400.00
1,000	LF	8" D.I.	50.00	50,000.00
0	LF	10" D.I.	60.00	0.00
0	LF	12" D.I.	85.00	0.00
0	EA	6" MJ GATE VALVE	550.00	0.00
9	EA	8" MJ GATE VALVE	700.00	6,300.00
0	EA	10" MJ GATE VALVE	1,050.00	0.00
1	EA	12" MJ GATE VALVE	1,300.00	1,300.00
0	EA	8" TAPPING VALVE/SLEEVE	1,100.00	0.00
0	EA	10" TAPPING VALVE/SLEEVE	900.00	0.00
1	EA	12" TAPPING VALVE/SLEEVE	1,300.00	1,300.00
0	EA	16" TAPPING VALVE/SLEEVE	1,400.00	0.00
2	EA	SHORT SERVICE (NON-LEAD)	250.00	500.00
2	EA	LONG SERVICE (NON-LEAD)	325.00	650.00
0	EA	SHORT SERVICE (LEAD)	400.00	0.00
0	EA	LONG SERVICE (LEAD)	500.00	0.00
3	EA	HYDRANT ASSEMBLY	2,500.00	7,500.00
0	EA	BLOWOFF ASSEMBLY	400.00	0.00
1	EA	LINESTOP	7,000.00	7,000.00
<b>SUBTOTAL - MATERIALS</b>				<b>76,950.00</b>

<b>B. INSTALLATION</b>				
1	LS	Trench Mobilization and Closeout	9,510.00	9,510.00
1	LS	Traffic Control	20,000.00	20,000.00
0	LF	Install Water Main: 4 inch	0.00	0.00
60	LF	Install Water Main: 6 inch	131.00	7,860.00
1,000	LF	Install Water Main: 8 inch	107.00	107,000.00
0	LF	Install Water Main: 12 inch	0.00	0.00
0	LF	Install Water Main: 16 inch	0.00	0.00
0	EA	Wet Tap ≤ 8 inch	0.00	0.00
1	EA	Wet Tap ≥ 10 inch	7,008.00	7,008.00
1	EA	Shut Down & Tie-In	4,737.00	4,737.00
4	EA	Cut & Cap Existing Water Main	3,529.00	14,116.00
1	EA	Line Stop (Excavation Only)	3,529.00	3,529.00
0	EA	4in Gate Valve and Box	0.00	0.00
0	EA	6in Gate Valve and Box	0.00	0.00
9	EA	8in Gate Valve and Box	367.00	3,303.00
0	EA	Blowoff Assembly	0.00	0.00
3	EA	Fire Hydrant Assembly	1,967.00	5,901.00
3	EA	Remove/Relocate Existing Hydrant	544.00	1,632.00
0	EA	Relocate Existing Meter	0.00	0.00

**KENTUCKY AMERICAN WATER**  
**ESTIMATE FOR:** Washington Avenue

**DATE:** 16-May-24  
**WEEKS:** 5

UNITS	UNIT		UNIT COST	ESTIMATED COST
2	EA	New Long Service	4,500.00	9,000.00
2	EA	New Short Service	3,000.00	6,000.00
<b>SUBTOTAL - INSTALLATION</b>				<b>199,596.00</b>

<b>C. RESTORATION</b>				
22,000	SF	Curb-To-Curb Asphalt Paving	6.60	145,200.00
4,000	SF	Concrete Cap	10.00	40,000.00
<b>SUBTOTAL - RESTORATION</b>				<b>185,200.00</b>

<b>D. DESIGN &amp; ADMINISTRATION</b>				
60	HRS	CONSTRUCTION OBSERVATIONS	65.00	3,900.00
	%	ENGINEERING FEES	20%	76,960.00
	%	AFUDC	0.25%	691.00
1	LS	LFUCG Permit Fee	250.00	250.00
<b>SUBTOTAL - DESIGN &amp; ADMINISTRATION</b>				<b>81,801.00</b>

**TOTAL ESTIMATED COST**

**\$543,547.00**



**KENTUCKY AMERICAN WATER**  
**ESTIMATE FOR:** Hawkins Avenue

**DATE:** 16-May-24  
**WEEKS:** 4

UNITS	UNIT		UNIT COST	ESTIMATED COST
<b>A. MATERIALS</b>				
20	LF	6" D.I.	40.00	800.00
800	LF	8" D.I.	50.00	40,000.00
0	LF	10" D.I.	60.00	0.00
0	LF	12" D.I.	85.00	0.00
0	EA	6" MJ GATE VALVE	550.00	0.00
2	EA	8" MJ GATE VALVE	700.00	1,400.00
0	EA	10" MJ GATE VALVE	1,050.00	0.00
0	EA	12" MJ GATE VALVE	1,300.00	0.00
0	EA	8" TAPPING VALVE/SLEEVE	1,100.00	0.00
0	EA	10" TAPPING VALVE/SLEEVE	900.00	0.00
0	EA	12" TAPPING VALVE/SLEEVE	1,300.00	0.00
0	EA	16" TAPPING VALVE/SLEEVE	1,400.00	0.00
14	EA	SHORT SERVICE (NON-LEAD)	250.00	3,500.00
14	EA	LONG SERVICE (NON-LEAD)	325.00	4,550.00
0	EA	SHORT SERVICE (LEAD)	400.00	0.00
0	EA	LONG SERVICE (LEAD)	500.00	0.00
1	EA	HYDRANT ASSEMBLY	2,500.00	2,500.00
0	EA	BLOWOFF ASSEMBLY	400.00	0.00
0	EA	LINESTOP	7,000.00	0.00
<b>SUBTOTAL - MATERIALS</b>				<b>52,750.00</b>

<b>B. INSTALLATION</b>				
1	LS	Trench Mobilization and Closeout	9,980.00	9,980.00
1	LS	Traffic Control	8,000.00	8,000.00
0	LF	Install Water Main: 4 inch	0.00	0.00
20	LF	Install Water Main: 6 inch	131.00	2,620.00
800	LF	Install Water Main: 8 inch	107.00	85,600.00
0	LF	Install Water Main: 12 inch	0.00	0.00
0	LF	Install Water Main: 16 inch	0.00	0.00
0	EA	Wet Tap ≤ 8 inch	0.00	0.00
0	EA	Wet Tap ≥ 10 inch	0.00	0.00
2	EA	Shut Down & Tie-In	4,737.00	9,474.00
4	EA	Cut & Cap Existing Water Main	3,529.00	14,116.00
0	EA	Line Stop (Excavation Only)	0.00	0.00
0	EA	4in Gate Valve and Box	0.00	0.00
0	EA	6in Gate Valve and Box	0.00	0.00
2	EA	8in Gate Valve and Box	367.00	734.00
0	EA	Blowoff Assembly	0.00	0.00
1	EA	Fire Hydrant Assembly	1,967.00	1,967.00
1	EA	Remove/Relocate Existing Hydrant	544.00	544.00
0	EA	Relocate Existing Meter	0.00	0.00

**KENTUCKY AMERICAN WATER**  
**ESTIMATE FOR:** Hawkins Avenue

**DATE:** 16-May-24  
**WEEKS:** 4

UNITS	UNIT		UNIT COST	ESTIMATED COST
14	EA	New Long Service	3,298.00	46,172.00
14	EA	New Short Service	2,168.00	30,352.00
<b>SUBTOTAL - INSTALLATION</b>				<b>209,559.00</b>

<b>C. RESTORATION</b>				
17,600	SF	Curb-To-Curb Asphalt Paving	4.38	77,088.00
3,200	SF	Concrete Cap	10.00	32,000.00
<b>SUBTOTAL - RESTORATION</b>				<b>109,088.00</b>

<b>D. DESIGN &amp; ADMINISTRATION</b>				
48	HRS	CONSTRUCTION OBSERVATIONS	65.00	3,120.00
	%	ENGINEERING FEES	15%	47,797.05
	%	AFUDC	0.25%	524.00
1	LS	LFUCG Permit Fee	250.00	250.00
<b>SUBTOTAL - DESIGN &amp; ADMINISTRATION</b>				<b>51,691.05</b>

**TOTAL ESTIMATED COST**

**\$423,088.00**



**KENTUCKY AMERICAN WATER**  
**ESTIMATE FOR:** Wilgus Avenue

**DATE:** 16-May-24  
**WEEKS:** 3

UNITS	UNIT		UNIT COST	ESTIMATED COST
<b>A. MATERIALS</b>				
20	LF	6" D.I.	40.00	800.00
350	LF	8" D.I.	50.00	17,500.00
0	LF	10" D.I.	60.00	0.00
0	LF	12" D.I.	85.00	0.00
0	EA	6" MJ GATE VALVE	550.00	0.00
1	EA	8" MJ GATE VALVE	700.00	700.00
0	EA	10" MJ GATE VALVE	1,050.00	0.00
0	EA	12" MJ GATE VALVE	1,300.00	0.00
0	EA	8" TAPPING VALVE/SLEEVE	1,100.00	0.00
0	EA	10" TAPPING VALVE/SLEEVE	900.00	0.00
0	EA	12" TAPPING VALVE/SLEEVE	1,300.00	0.00
0	EA	16" TAPPING VALVE/SLEEVE	1,400.00	0.00
5	EA	SHORT SERVICE (NON-LEAD)	250.00	1,250.00
5	EA	LONG SERVICE (NON-LEAD)	325.00	1,625.00
0	EA	SHORT SERVICE (LEAD)	400.00	0.00
0	EA	LONG SERVICE (LEAD)	500.00	0.00
1	EA	HYDRANT ASSEMBLY	2,500.00	2,500.00
1	EA	BLOWOFF ASSEMBLY	400.00	400.00
0	EA	LINESTOP	7,000.00	0.00
<b>SUBTOTAL - MATERIALS</b>				<b>24,775.00</b>

<b>B. INSTALLATION</b>				
1	LS	Trench Mobilization and Closeout	4,530.00	4,530.00
1	LS	Traffic Control	8,000.00	8,000.00
0	LF	Install Water Main: 4 inch	0.00	0.00
20	LF	Install Water Main: 6 inch	131.00	2,620.00
350	LF	Install Water Main: 8 inch	107.00	37,450.00
0	LF	Install Water Main: 12 inch	0.00	0.00
0	LF	Install Water Main: 16 inch	0.00	0.00
0	EA	Wet Tap ≤ 8 inch	0.00	0.00
0	EA	Wet Tap ≥ 10 inch	0.00	0.00
1	EA	Shut Down & Tie-In	4,737.00	4,737.00
2	EA	Cut & Cap Existing Water Main	3,529.00	7,058.00
0	EA	Line Stop (Excavation Only)	0.00	0.00
0	EA	4in Gate Valve and Box	0.00	0.00
0	EA	6in Gate Valve and Box	0.00	0.00
1	EA	8in Gate Valve and Box	367.00	367.00
1	EA	Blowoff Assembly	990.00	990.00
1	EA	Fire Hydrant Assembly	1,967.00	1,967.00
0	EA	Remove/Relocate Existing Hydrant	0.00	0.00
0	EA	Relocate Existing Meter	0.00	0.00

**KENTUCKY AMERICAN WATER**  
**ESTIMATE FOR:** Wilgus Avenue

**DATE:** 16-May-24  
**WEEKS:** 3

UNITS	UNIT		UNIT COST	ESTIMATED COST
5	EA	New Long Service	3,298.00	16,490.00
5	EA	New Short Service	2,168.00	10,840.00
<b>SUBTOTAL - INSTALLATION</b>				<b>95,049.00</b>

<b>C. RESTORATION</b>				
11,550	SF	Curb-To-Curb Asphalt Paving	4.38	50,589.00
1,400	SF	Concrete Cap	10.00	14,000.00
<b>SUBTOTAL - RESTORATION</b>				<b>64,589.00</b>

<b>D. DESIGN &amp; ADMINISTRATION</b>				
36	HRS	CONSTRUCTION OBSERVATIONS	65.00	2,340.00
	%	ENGINEERING FEES	10%	15,963.80
	%	AFUDC	0.25%	238.00
1	LS	LFUCG Permit Fee	250.00	250.00
<b>SUBTOTAL - DESIGN &amp; ADMINISTRATION</b>				<b>18,791.80</b>

**TOTAL ESTIMATED COST**

**\$203,205.00**



**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** Race Street (Third to Fifth)**WEEKS:** 6

UNITS	UNIT		UNIT COST	ESTIMATED COST
<b>A. MATERIALS</b>				
20	LF	6" D.I.	40.00	800.00
1,300	LF	8" D.I.	50.00	65,000.00
0	LF	10" D.I.	60.00	0.00
0	LF	12" D.I.	85.00	0.00
0	EA	6" MJ GATE VALVE	550.00	0.00
8	EA	8" MJ GATE VALVE	700.00	5,600.00
0	EA	10" MJ GATE VALVE	1,050.00	0.00
0	EA	12" MJ GATE VALVE	1,300.00	0.00
0	EA	8" TAPPING VALVE/SLEEVE	1,100.00	0.00
0	EA	10" TAPPING VALVE/SLEEVE	900.00	0.00
0	EA	12" TAPPING VALVE/SLEEVE	1,300.00	0.00
0	EA	16" TAPPING VALVE/SLEEVE	1,400.00	0.00
14	EA	SHORT SERVICE (NON-LEAD)	250.00	3,500.00
14	EA	LONG SERVICE (NON-LEAD)	325.00	4,550.00
0	EA	SHORT SERVICE (LEAD)	400.00	0.00
0	EA	LONG SERVICE (LEAD)	500.00	0.00
1	EA	HYDRANT ASSEMBLY	2,500.00	2,500.00
0	EA	BLOWOFF ASSEMBLY	400.00	0.00
0	EA	LINESTOP	7,000.00	0.00
<b>SUBTOTAL - MATERIALS</b>				<b>81,950.00</b>

<b>B. INSTALLATION</b>				
1	LS	Trench Mobilization and Closeout	16,070.00	16,070.00
1	LS	Traffic Control	15,000.00	15,000.00
0	LF	Install Water Main: 4 inch	0.00	0.00
20	LF	Install Water Main: 6 inch	131.00	2,620.00
1,300	LF	Install Water Main: 8 inch	107.00	139,100.00
0	LF	Install Water Main: 12 inch	0.00	0.00
0	LF	Install Water Main: 16 inch	0.00	0.00
0	EA	Wet Tap ≤ 8 inch	0.00	0.00
0	EA	Wet Tap ≥ 10 inch	0.00	0.00
7	EA	Shut Down & Tie-In	4,737.00	33,159.00
14	EA	Cut & Cap Existing Water Main	3,529.00	49,406.00
0	EA	Line Stop (Excavation Only)	0.00	0.00
0	EA	4in Gate Valve and Box	0.00	0.00
0	EA	6in Gate Valve and Box	0.00	0.00
8	EA	8in Gate Valve and Box	367.00	2,936.00
0	EA	Blowoff Assembly	0.00	0.00
1	EA	Fire Hydrant Assembly	1,967.00	1,967.00
1	EA	Remove/Relocate Existing Hydrant	544.00	544.00
0	EA	Relocate Existing Meter	0.00	0.00

**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** Race Street (Third to Fifth)**WEEKS:** 6

UNITS	UNIT		UNIT COST	ESTIMATED COST
14	EA	New Long Service	3,298.00	46,172.00
14	EA	New Short Service	2,168.00	30,352.00
<b>SUBTOTAL - INSTALLATION</b>				<b>337,326.00</b>

<b>C. RESTORATION</b>				
42,900	SF	Curb-To-Curb Asphalt Paving	2.00	85,800.00
5,200	SF	Concrete Cap	10.00	52,000.00
<b>SUBTOTAL - RESTORATION</b>				<b>137,800.00</b>

<b>D. DESIGN &amp; ADMINISTRATION</b>				
72	HRS	CONSTRUCTION OBSERVATIONS	65.00	4,680.00
	%	ENGINEERING FEES	15%	71,268.90
	%	AFUDC	0.25%	843.00
1	LS	LFUCG Permit Fee	250.00	250.00
<b>SUBTOTAL - DESIGN &amp; ADMINISTRATION</b>				<b>77,041.90</b>

**TOTAL ESTIMATED COST****\$634,118.00**



**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** College Street (Sadieville)**WEEKS:** 5

UNITS	UNIT		UNIT COST	ESTIMATED COST
<b>A. MATERIALS</b>				
60	LF	6" D.I.	40.00	2,400.00
850	LF	8" D.I.	50.00	42,500.00
0	LF	10" D.I.	60.00	0.00
0	LF	12" D.I.	85.00	0.00
0	EA	6" MJ GATE VALVE	550.00	0.00
7	EA	8" MJ GATE VALVE	700.00	4,900.00
0	EA	10" MJ GATE VALVE	1,050.00	0.00
1	EA	12" MJ GATE VALVE	1,300.00	1,300.00
0	EA	8" TAPPING VALVE/SLEEVE	1,100.00	0.00
0	EA	10" TAPPING VALVE/SLEEVE	900.00	0.00
1	EA	12" TAPPING VALVE/SLEEVE	1,300.00	1,300.00
0	EA	16" TAPPING VALVE/SLEEVE	1,400.00	0.00
4	EA	SHORT SERVICE (NON-LEAD)	250.00	1,000.00
4	EA	LONG SERVICE (NON-LEAD)	325.00	1,300.00
0	EA	SHORT SERVICE (LEAD)	400.00	0.00
0	EA	LONG SERVICE (LEAD)	500.00	0.00
3	EA	HYDRANT ASSEMBLY	2,500.00	7,500.00
0	EA	BLOWOFF ASSEMBLY	400.00	0.00
1	EA	LINESTOP	7,000.00	7,000.00
<b>SUBTOTAL - MATERIALS</b>				<b>69,200.00</b>

<b>B. INSTALLATION</b>				
1	LS	Trench Mobilization and Closeout	7,910.00	7,910.00
1	LS	Traffic Control	3,000.00	3,000.00
0	LF	Install Water Main: 4 inch	0.00	0.00
60	LF	Install Water Main: 6 inch	90.00	5,400.00
850	LF	Install Water Main: 8 inch	90.00	76,500.00
0	LF	Install Water Main: 12 inch	0.00	0.00
0	LF	Install Water Main: 16 inch	0.00	0.00
0	EA	Wet Tap ≤ 8 inch	0.00	0.00
1	EA	Wet Tap ≥ 10 inch	7,008.00	7,008.00
2	EA	Shut Down & Tie-In	4,737.00	9,474.00
6	EA	Cut & Cap Existing Water Main	3,529.00	21,174.00
1	EA	Line Stop (Excavation Only)	3,529.00	3,529.00
0	EA	4in Gate Valve and Box	0.00	0.00
0	EA	6in Gate Valve and Box	0.00	0.00
7	EA	8in Gate Valve and Box	367.00	2,569.00
0	EA	Blowoff Assembly	0.00	0.00
3	EA	Fire Hydrant Assembly	1,967.00	5,901.00
3	EA	Remove/Relocate Existing Hydrant	544.00	1,632.00
0	EA	Relocate Existing Meter	0.00	0.00

**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** College Street (Sadieville)**WEEKS:** 5

UNITS	UNIT		UNIT COST	ESTIMATED COST
4	EA	New Long Service	3,298.00	13,192.00
4	EA	New Short Service	2,168.00	8,672.00
<b>SUBTOTAL - INSTALLATION</b>				<b>165,961.00</b>

<b>C. RESTORATION</b>				
14,025	SF	Curb-To-Curb Asphalt Paving	6.60	92,565.00
3,400	SF	Concrete Cap	10.00	34,000.00
<b>SUBTOTAL - RESTORATION</b>				<b>126,565.00</b>

<b>D. DESIGN &amp; ADMINISTRATION</b>				
60	HRS	CONSTRUCTION OBSERVATIONS	65.00	3,900.00
	%	ENGINEERING FEES	15%	43,878.90
	%	AFUDC	0.25%	415.00
1	LS	LFUCG Permit Fee	250.00	250.00
<b>SUBTOTAL - DESIGN &amp; ADMINISTRATION</b>				<b>48,443.90</b>

**TOTAL ESTIMATED COST****\$410,170.00**



**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** Jones Hill St (Owenton)**WEEKS:** 3

UNITS	UNIT		UNIT COST	ESTIMATED COST
<b>A. MATERIALS</b>				
20	LF	6" D.I.	40.00	800.00
300	LF	8" D.I.	50.00	15,000.00
0	LF	10" D.I.	60.00	0.00
0	LF	12" D.I.	85.00	0.00
0	EA	6" MJ GATE VALVE	550.00	0.00
1	EA	8" MJ GATE VALVE	700.00	700.00
0	EA	10" MJ GATE VALVE	1,050.00	0.00
0	EA	12" MJ GATE VALVE	1,300.00	0.00
0	EA	8" TAPPING VALVE/SLEEVE	1,100.00	0.00
0	EA	10" TAPPING VALVE/SLEEVE	900.00	0.00
0	EA	12" TAPPING VALVE/SLEEVE	1,300.00	0.00
0	EA	16" TAPPING VALVE/SLEEVE	1,400.00	0.00
3	EA	SHORT SERVICE (NON-LEAD)	250.00	750.00
3	EA	LONG SERVICE (NON-LEAD)	325.00	975.00
0	EA	SHORT SERVICE (LEAD)	400.00	0.00
0	EA	LONG SERVICE (LEAD)	500.00	0.00
1	EA	HYDRANT ASSEMBLY	2,500.00	2,500.00
2	EA	BLOWOFF ASSEMBLY	400.00	800.00
0	EA	LINESTOP	7,000.00	0.00
<b>SUBTOTAL - MATERIALS</b>				<b>21,525.00</b>

<b>B. INSTALLATION</b>				
1	LS	Trench Mobilization and Closeout	3,190.00	3,190.00
1	LS	Traffic Control	3,500.00	3,500.00
0	LF	Install Water Main: 4 inch	0.00	0.00
20	LF	Install Water Main: 6 inch	85.00	1,700.00
300	LF	Install Water Main: 8 inch	85.00	25,500.00
0	LF	Install Water Main: 12 inch	0.00	0.00
0	LF	Install Water Main: 16 inch	0.00	0.00
0	EA	Wet Tap ≤ 8 inch	0.00	0.00
0	EA	Wet Tap ≥ 10 inch	0.00	0.00
1	EA	Shut Down & Tie-In	4,737.00	4,737.00
2	EA	Cut & Cap Existing Water Main	3,529.00	7,058.00
0	EA	Line Stop (Excavation Only)	0.00	0.00
0	EA	4in Gate Valve and Box	0.00	0.00
0	EA	6in Gate Valve and Box	0.00	0.00
1	EA	8in Gate Valve and Box	367.00	367.00
2	EA	Blowoff Assembly	990.00	1,980.00
1	EA	Fire Hydrant Assembly	1,967.00	1,967.00
1	EA	Remove/Relocate Existing Hydrant	544.00	544.00
0	EA	Relocate Existing Meter	0.00	0.00

**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** Jones Hill St (Owenton)**WEEKS:** 3

UNITS	UNIT		UNIT COST	ESTIMATED COST
3	EA	New Long Service	3,298.00	9,894.00
3	EA	New Short Service	2,168.00	6,504.00
<b>SUBTOTAL - INSTALLATION</b>				<b>66,941.00</b>

<b>C. RESTORATION</b>				
4,950	SF	Curb-To-Curb Asphalt Paving	6.60	32,670.00
1,200	SF	Concrete Cap	10.00	12,000.00
<b>SUBTOTAL - RESTORATION</b>				<b>44,670.00</b>

<b>D. DESIGN &amp; ADMINISTRATION</b>				
36	HRS	CONSTRUCTION OBSERVATIONS	65.00	2,340.00
	%	ENGINEERING FEES	20%	22,322.20
	%	AFUDC	0.25%	167.00
1	LS	LFUCG Permit Fee	250.00	250.00
<b>SUBTOTAL - DESIGN &amp; ADMINISTRATION</b>				<b>25,079.20</b>

**TOTAL ESTIMATED COST****\$158,215.00**



**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** **WEEKS:** 4

UNITS	UNIT		UNIT COST	ESTIMATED COST
<b>A. MATERIALS</b>				
40	LF	6" D.I.	40.00	1,600.00
725	LF	8" D.I.	50.00	36,250.00
0	LF	10" D.I.	60.00	0.00
0	LF	12" D.I.	85.00	0.00
0	EA	6" MJ GATE VALVE	550.00	0.00
1	EA	8" MJ GATE VALVE	700.00	700.00
0	EA	10" MJ GATE VALVE	1,050.00	0.00
0	EA	12" MJ GATE VALVE	1,300.00	0.00
1	EA	8" TAPPING VALVE/SLEEVE	1,100.00	1,100.00
0	EA	10" TAPPING VALVE/SLEEVE	900.00	0.00
0	EA	12" TAPPING VALVE/SLEEVE	1,300.00	0.00
0	EA	16" TAPPING VALVE/SLEEVE	1,400.00	0.00
17	EA	SHORT SERVICE (NON-LEAD)	250.00	4,250.00
17	EA	LONG SERVICE (NON-LEAD)	325.00	5,525.00
0	EA	SHORT SERVICE (LEAD)	400.00	0.00
0	EA	LONG SERVICE (LEAD)	500.00	0.00
2	EA	HYDRANT ASSEMBLY	2,500.00	5,000.00
2	EA	BLOWOFF ASSEMBLY	400.00	800.00
0	EA	LINESTOP	7,000.00	0.00
<b>SUBTOTAL - MATERIALS</b>				<b>55,225.00</b>

<b>B. INSTALLATION</b>				
1	LS	Trench Mobilization and Closeout	9,060.00	9,060.00
1	LS	Traffic Control	3,640.00	3,640.00
0	LF	Install Water Main: 4 inch	0.00	0.00
40	LF	Install Water Main: 6 inch	85.00	3,400.00
725	LF	Install Water Main: 8 inch	85.00	61,625.00
0	LF	Install Water Main: 12 inch	0.00	0.00
0	LF	Install Water Main: 16 inch	0.00	0.00
1	EA	Wet Tap ≤ 8 inch	5,117.00	5,117.00
0	EA	Wet Tap ≥ 10 inch	0.00	0.00
0	EA	Shut Down & Tie-In	0.00	0.00
2	EA	Cut & Cap Existing Water Main	3,529.00	7,058.00
0	EA	Line Stop (Excavation Only)	0.00	0.00
0	EA	4in Gate Valve and Box	0.00	0.00
0	EA	6in Gate Valve and Box	0.00	0.00
1	EA	8in Gate Valve and Box	367.00	367.00
2	EA	Blowoff Assembly	990.00	1,980.00
2	EA	Fire Hydrant Assembly	1,967.00	3,934.00
2	EA	Remove/Relocate Existing Hydrant	544.00	1,088.00
0	EA	Relocate Existing Meter	0.00	0.00
17	EA	New Long Service	3,298.00	56,066.00

**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** **WEEKS:** 4

UNITS	UNIT		UNIT COST	ESTIMATED COST
17	EA	New Short Service	2,168.00	36,856.00
<b>SUBTOTAL - INSTALLATION</b>				<b>190,191.00</b>

**C. RESTORATION**

15,950	SF	Curb-To-Curb Asphalt Paving	6.60	105,270.00
2,900	SF	Concrete Cap	10.00	29,000.00
<b>SUBTOTAL - RESTORATION</b>				<b>134,270.00</b>

**D. DESIGN & ADMINISTRATION**

48	HRS	CONSTRUCTION OBSERVATIONS	65.00	3,120.00
	%	ENGINEERING FEES	15%	48,669.15
	%	AFUDC	0.25%	475.00
1	LS	LFUCG Permit Fee	250.00	250.00
<b>SUBTOTAL - DESIGN &amp; ADMINISTRATION</b>				<b>52,514.15</b>

**TOTAL ESTIMATED COST****\$432,200.00**



**KENTUCKY AMERICAN WATER****DATE:** 6-Aug-24**ESTIMATE FOR:** N. Limestone (New Circle to W Sixth St)**WEEKS:** 18

UNITS	UNIT		UNIT COST	ESTIMATED COST
<b>A. MATERIALS</b>				
260	LF	6" D.I.	40.00	10,400.00
0	LF	8" D.I.	50.00	0.00
0	LF	10" D.I.	60.00	0.00
6,350	LF	12" D.I.	85.00	539,750.00
6	EA	6" MJ GATE VALVE	550.00	3,300.00
0	EA	8" MJ GATE VALVE	700.00	0.00
0	EA	10" MJ GATE VALVE	1,050.00	0.00
25	EA	12" MJ GATE VALVE	1,300.00	32,500.00
0	EA	8" TAPPING VALVE/SLEEVE	1,100.00	0.00
0	EA	10" TAPPING VALVE/SLEEVE	900.00	0.00
0	EA	12" TAPPING VALVE/SLEEVE	1,300.00	0.00
0	EA	16" TAPPING VALVE/SLEEVE	1,400.00	0.00
58	EA	SHORT SERVICE (NON-LEAD)	250.00	14,500.00
58	EA	LONG SERVICE (NON-LEAD)	325.00	18,850.00
0	EA	SHORT SERVICE (LEAD)	400.00	0.00
0	EA	LONG SERVICE (LEAD)	500.00	0.00
20	EA	HYDRANT ASSEMBLY	2,500.00	50,000.00
0	EA	BLOWOFF ASSEMBLY	400.00	0.00
0	EA	LINESTOP	7,000.00	0.00
<b>SUBTOTAL - MATERIALS</b>				<b>669,300.00</b>

<b>B. INSTALLATION</b>				
1	LS	Trench Mobilization and Closeout	90,360.00	90,360.00
1	LS	Traffic Control	70,000.00	70,000.00
0	LF	Install Water Main: 4 inch	0.00	0.00
400	LF	Install Water Main: 6 inch	131.00	52,400.00
0	LF	Install Water Main: 8 inch	0.00	0.00
6,350	LF	Install Water Main: 12 inch	150.00	952,500.00
0	LF	Install Water Main: 16 inch	0.00	0.00
0	EA	Wet Tap ≤ 8 inch	0.00	0.00
0	EA	Wet Tap ≥ 10 inch	0.00	0.00
30	EA	Shut Down & Tie-In	4,737.00	142,110.00
60	EA	Cut & Cap Existing Water Main	3,529.00	211,740.00
0	EA	Line Stop (Excavation Only)	0.00	0.00
0	EA	4in Gate Valve and Box	0.00	0.00
6	EA	6in Gate Valve and Box	333.00	1,998.00
25	EA	8in Gate Valve and Box	367.00	9,175.00
0	EA	Blowoff Assembly	0.00	0.00
20	EA	Fire Hydrant Assembly	1,967.00	39,340.00
20	EA	Remove/Relocate Existing Hydrant	544.00	10,880.00
0	EA	Relocate Existing Meter	0.00	0.00
58	EA	New Long Service	3,298.00	191,284.00

**KENTUCKY AMERICAN WATER****DATE:** 6-Aug-24**ESTIMATE FOR:** N. Limestone (New Circle to W Sixth St)**WEEKS:** 18

UNITS	UNIT		UNIT COST	ESTIMATED COST
58	EA	New Short Service	2,168.00	125,744.00
<b>SUBTOTAL - INSTALLATION</b>				<b>1,897,531.00</b>

**C. RESTORATION**

372,533	SF	Curb-To-Curb Asphalt Paving	2.00	745,067.00
25,400	SF	Concrete Cap	10.00	254,000.00
<b>SUBTOTAL - RESTORATION</b>				<b>999,067.00</b>

**D. DESIGN & ADMINISTRATION**

216	HRS	CONSTRUCTION OBSERVATIONS	65.00	14,040.00
	%	ENGINEERING FEES	10%	289,659.80
	%	AFUDC	0.25%	4,744.00
1	LS	LFUCG Permit Fee	250.00	250.00
<b>SUBTOTAL - DESIGN &amp; ADMINISTRATION</b>				<b>308,693.80</b>

**TOTAL ESTIMATED COST****\$3,874,592.00**



**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** Fontaine Rd (High St to Chinoe)**WEEKS:** 12

UNITS	UNIT		UNIT COST	ESTIMATED COST
<b>A. MATERIALS</b>				
40	LF	6" D.I.	40.00	1,600.00
3,800	LF	8" D.I.	50.00	190,000.00
0	LF	10" D.I.	60.00	0.00
0	LF	12" D.I.	85.00	0.00
0	EA	6" MJ GATE VALVE	550.00	0.00
16	EA	8" MJ GATE VALVE	700.00	11,200.00
0	EA	10" MJ GATE VALVE	1,050.00	0.00
0	EA	12" MJ GATE VALVE	1,300.00	0.00
0	EA	8" TAPPING VALVE/SLEEVE	1,100.00	0.00
0	EA	10" TAPPING VALVE/SLEEVE	900.00	0.00
0	EA	12" TAPPING VALVE/SLEEVE	1,300.00	0.00
0	EA	16" TAPPING VALVE/SLEEVE	1,400.00	0.00
49	EA	SHORT SERVICE (NON-LEAD)	250.00	12,250.00
49	EA	LONG SERVICE (NON-LEAD)	325.00	15,925.00
0	EA	SHORT SERVICE (LEAD)	400.00	0.00
0	EA	LONG SERVICE (LEAD)	500.00	0.00
2	EA	HYDRANT ASSEMBLY	2,500.00	5,000.00
0	EA	BLOWOFF ASSEMBLY	400.00	0.00
0	EA	LINESTOP	7,000.00	0.00
<b>SUBTOTAL - MATERIALS</b>				<b>235,975.00</b>

<b>B. INSTALLATION</b>				
1	LS	Trench Mobilization and Closeout	44,920.00	44,920.00
1	LS	Traffic Control	40,000.00	40,000.00
0	LF	Install Water Main: 4 inch	0.00	0.00
40	LF	Install Water Main: 6 inch	131.00	5,240.00
3,800	LF	Install Water Main: 8 inch	107.00	406,600.00
0	LF	Install Water Main: 12 inch	0.00	0.00
0	LF	Install Water Main: 16 inch	0.00	0.00
0	EA	Wet Tap ≤ 8 inch	0.00	0.00
0	EA	Wet Tap ≥ 10 inch	0.00	0.00
12	EA	Shut Down & Tie-In	4,737.00	56,844.00
24	EA	Cut & Cap Existing Water Main	3,529.00	84,696.00
0	EA	Line Stop (Excavation Only)	0.00	0.00
0	EA	4in Gate Valve and Box	0.00	0.00
0	EA	6in Gate Valve and Box	0.00	0.00
16	EA	8in Gate Valve and Box	367.00	5,872.00
0	EA	Blowoff Assembly	0.00	0.00
2	EA	Fire Hydrant Assembly	1,967.00	3,934.00
2	EA	Remove/Relocate Existing Hydrant	544.00	1,088.00
0	EA	Relocate Existing Meter	0.00	0.00
49	EA	New Long Service	3,500.00	171,500.00

**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** Fontaine Rd (High St to Chinoe)**WEEKS:** 12

UNITS	UNIT		UNIT COST	ESTIMATED COST
49	EA	New Short Service	2,500.00	122,500.00
<b>SUBTOTAL - INSTALLATION</b>				<b>943,194.00</b>

**C. RESTORATION**

83,600	SF	Curb-To-Curb Asphalt Paving	2.00	167,200.00
15,200	SF	Concrete Cap	10.00	152,000.00
<b>SUBTOTAL - RESTORATION</b>				<b>319,200.00</b>

**D. DESIGN & ADMINISTRATION**

144	HRS	CONSTRUCTION OBSERVATIONS	65.00	9,360.00
	%	ENGINEERING FEES	15%	189,360.00
	%	AFUDC	0.25%	2,948.00
1	LS	LFUCG Permit Fee	250.00	250.00
<b>SUBTOTAL - DESIGN &amp; ADMINISTRATION</b>				<b>201,918.00</b>

**TOTAL ESTIMATED COST****\$1,700,287.00**



**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** E 5th St (Pemberton St to Race St)**WEEKS:** 3

UNITS	UNIT		UNIT COST	ESTIMATED COST
<b>A. MATERIALS</b>				
20	LF	6" D.I.	40.00	800.00
200	LF	8" D.I.	50.00	10,000.00
0	LF	10" D.I.	60.00	0.00
0	LF	12" D.I.	85.00	0.00
0	EA	6" MJ GATE VALVE	550.00	0.00
2	EA	8" MJ GATE VALVE	700.00	1,400.00
0	EA	10" MJ GATE VALVE	1,050.00	0.00
0	EA	12" MJ GATE VALVE	1,300.00	0.00
0	EA	8" TAPPING VALVE/SLEEVE	1,100.00	0.00
0	EA	10" TAPPING VALVE/SLEEVE	900.00	0.00
0	EA	12" TAPPING VALVE/SLEEVE	1,300.00	0.00
0	EA	16" TAPPING VALVE/SLEEVE	1,400.00	0.00
2	EA	SHORT SERVICE (NON-LEAD)	250.00	500.00
2	EA	LONG SERVICE (NON-LEAD)	325.00	650.00
0	EA	SHORT SERVICE (LEAD)	400.00	0.00
0	EA	LONG SERVICE (LEAD)	500.00	0.00
1	EA	HYDRANT ASSEMBLY	2,500.00	2,500.00
0	EA	BLOWOFF ASSEMBLY	400.00	0.00
0	EA	LINESTOP	7,000.00	0.00
<b>SUBTOTAL - MATERIALS</b>				<b>15,850.00</b>

<b>B. INSTALLATION</b>				
1	LS	Trench Mobilization and Closeout	4,770.00	4,770.00
1	LS	Traffic Control	10,000.00	10,000.00
0	LF	Install Water Main: 4 inch	0.00	0.00
20	LF	Install Water Main: 6 inch	131.00	2,620.00
200	LF	Install Water Main: 8 inch	107.00	21,400.00
0	LF	Install Water Main: 12 inch	0.00	0.00
0	LF	Install Water Main: 16 inch	0.00	0.00
0	EA	Wet Tap ≤ 8 inch	0.00	0.00
0	EA	Wet Tap ≥ 10 inch	0.00	0.00
4	EA	Shut Down & Tie-In	4,737.00	18,948.00
8	EA	Cut & Cap Existing Water Main	3,529.00	28,232.00
0	EA	Line Stop (Excavation Only)	0.00	0.00
0	EA	4in Gate Valve and Box	0.00	0.00
0	EA	6in Gate Valve and Box	0.00	0.00
2	EA	8in Gate Valve and Box	367.00	734.00
0	EA	Blowoff Assembly	0.00	0.00
1	EA	Fire Hydrant Assembly	1,967.00	1,967.00
1	EA	Remove/Relocate Existing Hydrant	544.00	544.00
0	EA	Relocate Existing Meter	0.00	0.00

**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** E 5th St (Pemberton St to Race St)**WEEKS:** 3

UNITS	UNIT		UNIT COST	ESTIMATED COST
2	EA	New Long Service	3,298.00	6,596.00
2	EA	New Short Service	2,168.00	4,336.00
<b>SUBTOTAL - INSTALLATION</b>				<b>100,147.00</b>

<b>C. RESTORATION</b>				
3,667	SF	Curb-To-Curb Asphalt Paving	2.00	7,333.00
800	SF	Concrete Cap	10.00	8,000.00
<b>SUBTOTAL - RESTORATION</b>				<b>15,333.00</b>

<b>D. DESIGN &amp; ADMINISTRATION</b>				
36	HRS	CONSTRUCTION OBSERVATIONS	65.00	2,340.00
	%	ENGINEERING FEES	5%	5,774.00
	%	AFUDC	0.25%	250.00
1	LS	LFUCG Permit Fee	250.00	250.00
<b>SUBTOTAL - DESIGN &amp; ADMINISTRATION</b>				<b>8,614.00</b>

**TOTAL ESTIMATED COST****\$139,944.00**



**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** Corral St (Race St to Midland Ave)**WEEKS:** 4

UNITS	UNIT		UNIT COST	ESTIMATED COST
<b>A. MATERIALS</b>				
20	LF	6" D.I.	40.00	800.00
450	LF	8" D.I.	50.00	22,500.00
0	LF	10" D.I.	60.00	0.00
0	LF	12" D.I.	85.00	0.00
0	EA	6" MJ GATE VALVE	550.00	0.00
2	EA	8" MJ GATE VALVE	700.00	1,400.00
0	EA	10" MJ GATE VALVE	1,050.00	0.00
0	EA	12" MJ GATE VALVE	1,300.00	0.00
0	EA	8" TAPPING VALVE/SLEEVE	1,100.00	0.00
0	EA	10" TAPPING VALVE/SLEEVE	900.00	0.00
1	EA	12" TAPPING VALVE/SLEEVE	1,300.00	1,300.00
0	EA	16" TAPPING VALVE/SLEEVE	1,400.00	0.00
1	EA	SHORT SERVICE (NON-LEAD)	250.00	250.00
1	EA	LONG SERVICE (NON-LEAD)	325.00	325.00
0	EA	SHORT SERVICE (LEAD)	400.00	0.00
0	EA	LONG SERVICE (LEAD)	500.00	0.00
1	EA	HYDRANT ASSEMBLY	2,500.00	2,500.00
0	EA	BLOWOFF ASSEMBLY	400.00	0.00
0	EA	LINESTOP	7,000.00	0.00
<b>SUBTOTAL - MATERIALS</b>				<b>29,075.00</b>

<b>B. INSTALLATION</b>				
1	LS	Trench Mobilization and Closeout	5,260.00	5,260.00
1	LS	Traffic Control	8,000.00	8,000.00
0	LF	Install Water Main: 4 inch	0.00	0.00
20	LF	Install Water Main: 6 inch	131.00	2,620.00
450	LF	Install Water Main: 8 inch	107.00	48,150.00
0	LF	Install Water Main: 12 inch	0.00	0.00
0	LF	Install Water Main: 16 inch	0.00	0.00
0	EA	Wet Tap ≤ 8 inch	0.00	0.00
1	EA	Wet Tap ≥ 10 inch	7,008.00	7,008.00
2	EA	Shut Down & Tie-In	4,737.00	9,474.00
6	EA	Cut & Cap Existing Water Main	3,529.00	21,174.00
0	EA	Line Stop (Excavation Only)	0.00	0.00
0	EA	4in Gate Valve and Box	0.00	0.00
0	EA	6in Gate Valve and Box	0.00	0.00
2	EA	8in Gate Valve and Box	367.00	734.00
0	EA	Blowoff Assembly	0.00	0.00
1	EA	Fire Hydrant Assembly	1,967.00	1,967.00
1	EA	Remove/Relocate Existing Hydrant	544.00	544.00
0	EA	Relocate Existing Meter	0.00	0.00

**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** Corral St (Race St to Midland Ave)**WEEKS:** 4

UNITS	UNIT		UNIT COST	ESTIMATED COST
1	EA	New Long Service	3,298.00	3,298.00
1	EA	New Short Service	2,168.00	2,168.00
<b>SUBTOTAL - INSTALLATION</b>				<b>110,397.00</b>

<b>C. RESTORATION</b>				
9,900	SF	Curb-To-Curb Asphalt Paving	2.00	19,800.00
1,800	SF	Concrete Cap	10.00	18,000.00
<b>SUBTOTAL - RESTORATION</b>				<b>37,800.00</b>

<b>D. DESIGN &amp; ADMINISTRATION</b>				
48	HRS	CONSTRUCTION OBSERVATIONS	65.00	3,120.00
	%	ENGINEERING FEES	15%	22,229.55
	%	AFUDC	0.25%	276.00
1	LS	LFUCG Permit Fee	250.00	250.00
<b>SUBTOTAL - DESIGN &amp; ADMINISTRATION</b>				<b>25,875.55</b>

**TOTAL ESTIMATED COST****\$203,148.00**



**KENTUCKY AMERICAN WATER****ESTIMATE FOR:** Pine St - Lawrence St**DATE:** 16-May-24**WEEKS:** 5

UNITS	UNIT		UNIT COST	ESTIMATED COST
<b>A. MATERIALS</b>				
40	LF	6" D.I.	40.00	1,600.00
900	LF	8" D.I.	50.00	45,000.00
0	LF	10" D.I.	60.00	0.00
0	LF	12" D.I.	85.00	0.00
0	EA	6" MJ GATE VALVE	550.00	0.00
5	EA	8" MJ GATE VALVE	700.00	3,500.00
0	EA	10" MJ GATE VALVE	1,050.00	0.00
1	EA	12" MJ GATE VALVE	1,300.00	1,300.00
0	EA	8" TAPPING VALVE/SLEEVE	1,100.00	0.00
0	EA	10" TAPPING VALVE/SLEEVE	900.00	0.00
1	EA	12" TAPPING VALVE/SLEEVE	1,300.00	1,300.00
0	EA	16" TAPPING VALVE/SLEEVE	1,400.00	0.00
9	EA	SHORT SERVICE (NON-LEAD)	250.00	2,250.00
9	EA	LONG SERVICE (NON-LEAD)	325.00	2,925.00
0	EA	SHORT SERVICE (LEAD)	400.00	0.00
0	EA	LONG SERVICE (LEAD)	500.00	0.00
2	EA	HYDRANT ASSEMBLY	2,500.00	5,000.00
0	EA	BLOWOFF ASSEMBLY	400.00	0.00
0	EA	LINESTOP	7,000.00	0.00
<b>SUBTOTAL - MATERIALS</b>				<b>62,875.00</b>

<b>B. INSTALLATION</b>				
1	LS	Trench Mobilization and Closeout	13,670.00	13,670.00
1	LS	Traffic Control	20,000.00	20,000.00
0	LF	Install Water Main: 4 inch	0.00	0.00
40	LF	Install Water Main: 6 inch	200.00	8,000.00
900	LF	Install Water Main: 8 inch	150.00	135,000.00
0	LF	Install Water Main: 12 inch	0.00	0.00
0	LF	Install Water Main: 16 inch	0.00	0.00
0	EA	Wet Tap ≤ 8 inch	0.00	0.00
1	EA	Wet Tap ≥ 10 inch	7,008.00	7,008.00
3	EA	Shut Down & Tie-In	4,737.00	14,211.00
8	EA	Cut & Cap Existing Water Main	3,529.00	28,232.00
0	EA	Line Stop (Excavation Only)	0.00	0.00
0	EA	4in Gate Valve and Box	0.00	0.00
0	EA	6in Gate Valve and Box	0.00	0.00
5	EA	8in Gate Valve and Box	367.00	1,835.00
0	EA	Blowoff Assembly	0.00	0.00
2	EA	Fire Hydrant Assembly	1,967.00	3,934.00
2	EA	Remove/Relocate Existing Hydrant	544.00	1,088.00
0	EA	Relocate Existing Meter	0.00	0.00

**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** Pine St - Lawrence St**WEEKS:** 5

UNITS	UNIT		UNIT COST	ESTIMATED COST
9	EA	New Long Service	3,500.00	31,500.00
9	EA	New Short Service	2,500.00	22,500.00
<b>SUBTOTAL - INSTALLATION</b>				<b>286,978.00</b>

<b>C. RESTORATION</b>				
19,800	SF	Curb-To-Curb Asphalt Paving	6.60	130,680.00
3,600	SF	Concrete Cap	10.00	36,000.00
<b>SUBTOTAL - RESTORATION</b>				<b>166,680.00</b>

<b>D. DESIGN &amp; ADMINISTRATION</b>				
60	HRS	CONSTRUCTION OBSERVATIONS	65.00	3,900.00
	%	ENGINEERING FEES	15%	68,050.00
	%	AFUDC	0.25%	875.00
1	LS	LFUCG Permit Fee	250.00	250.00
<b>SUBTOTAL - DESIGN &amp; ADMINISTRATION</b>				<b>73,075.00</b>

**TOTAL ESTIMATED COST****\$589,608.00**



**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** Warwick Ct (Redding Rd to Dead End)**WEEKS:** 3

UNITS	UNIT		UNIT COST	ESTIMATED COST
<b>A. MATERIALS</b>				
40	LF	6" D.I.	40.00	1,600.00
900	LF	8" D.I.	50.00	45,000.00
0	LF	10" D.I.	60.00	0.00
0	LF	12" D.I.	85.00	0.00
0	EA	6" MJ GATE VALVE	550.00	0.00
2	EA	8" MJ GATE VALVE	700.00	1,400.00
0	EA	10" MJ GATE VALVE	1,050.00	0.00
1	EA	12" MJ GATE VALVE	1,300.00	1,300.00
0	EA	8" TAPPING VALVE/SLEEVE	1,100.00	0.00
0	EA	10" TAPPING VALVE/SLEEVE	900.00	0.00
1	EA	12" TAPPING VALVE/SLEEVE	1,300.00	1,300.00
0	EA	16" TAPPING VALVE/SLEEVE	1,400.00	0.00
10	EA	SHORT SERVICE (NON-LEAD)	250.00	2,500.00
10	EA	LONG SERVICE (NON-LEAD)	325.00	3,250.00
0	EA	SHORT SERVICE (LEAD)	400.00	0.00
0	EA	LONG SERVICE (LEAD)	500.00	0.00
2	EA	HYDRANT ASSEMBLY	2,500.00	5,000.00
1	EA	BLOWOFF ASSEMBLY	400.00	400.00
0	EA	LINESTOP	7,000.00	0.00
<b>SUBTOTAL - MATERIALS</b>				<b>61,750.00</b>

<b>B. INSTALLATION</b>				
1	LS	Trench Mobilization and Closeout	8,480.00	8,480.00
1	LS	Traffic Control	3,640.00	3,640.00
0	LF	Install Water Main: 4 inch	0.00	0.00
40	LF	Install Water Main: 6 inch	100.00	4,000.00
900	LF	Install Water Main: 8 inch	100.00	90,000.00
0	LF	Install Water Main: 12 inch	0.00	0.00
0	LF	Install Water Main: 16 inch	0.00	0.00
0	EA	Wet Tap ≤ 8 inch	0.00	0.00
1	EA	Wet Tap ≥ 10 inch	7,008.00	7,008.00
0	EA	Shut Down & Tie-In	0.00	0.00
1	EA	Cut & Cap Existing Water Main	3,529.00	3,529.00
0	EA	Line Stop (Excavation Only)	0.00	0.00
0	EA	4in Gate Valve and Box	0.00	0.00
0	EA	6in Gate Valve and Box	0.00	0.00
2	EA	8in Gate Valve and Box	367.00	734.00
1	EA	Blowoff Assembly	990.00	990.00
2	EA	Fire Hydrant Assembly	1,967.00	3,934.00
2	EA	Remove/Relocate Existing Hydrant	544.00	1,088.00
0	EA	Relocate Existing Meter	0.00	0.00

**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** Warwick Ct (Redding Rd to Dead End)**WEEKS:** 3

UNITS	UNIT		UNIT COST	ESTIMATED COST
10	EA	New Long Service	3,298.00	32,980.00
10	EA	New Short Service	2,168.00	21,680.00
<b>SUBTOTAL - INSTALLATION</b>				<b>178,063.00</b>

<b>C. RESTORATION</b>				
16,500	SF	Curb-To-Curb Asphalt Paving	6.60	108,900.00
3,600	SF	Concrete Cap	10.00	36,000.00
<b>SUBTOTAL - RESTORATION</b>				<b>144,900.00</b>

<b>D. DESIGN &amp; ADMINISTRATION</b>				
36	HRS	CONSTRUCTION OBSERVATIONS	65.00	2,340.00
	%	ENGINEERING FEES	10%	32,296.30
	%	AFUDC	0.25%	445.00
1	LS	LFUCG Permit Fee	250.00	250.00
<b>SUBTOTAL - DESIGN &amp; ADMINISTRATION</b>				<b>35,331.30</b>

**TOTAL ESTIMATED COST****\$420,044.00**



**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** Arrowhead Ct (Arrowhead Dr to Dead End)**WEEKS:** 3

UNITS	UNIT		UNIT COST	ESTIMATED COST
<b>A. MATERIALS</b>				
20	LF	6" D.I.	40.00	800.00
350	LF	8" D.I.	50.00	17,500.00
0	LF	10" D.I.	60.00	0.00
0	LF	12" D.I.	85.00	0.00
0	EA	6" MJ GATE VALVE	550.00	0.00
1	EA	8" MJ GATE VALVE	700.00	700.00
0	EA	10" MJ GATE VALVE	1,050.00	0.00
0	EA	12" MJ GATE VALVE	1,300.00	0.00
0	EA	8" TAPPING VALVE/SLEEVE	1,100.00	0.00
0	EA	10" TAPPING VALVE/SLEEVE	900.00	0.00
0	EA	12" TAPPING VALVE/SLEEVE	1,300.00	0.00
0	EA	16" TAPPING VALVE/SLEEVE	1,400.00	0.00
3	EA	SHORT SERVICE (NON-LEAD)	250.00	750.00
3	EA	LONG SERVICE (NON-LEAD)	325.00	975.00
0	EA	SHORT SERVICE (LEAD)	400.00	0.00
0	EA	LONG SERVICE (LEAD)	500.00	0.00
1	EA	HYDRANT ASSEMBLY	2,500.00	2,500.00
1	EA	BLOWOFF ASSEMBLY	400.00	400.00
0	EA	LINESTOP	7,000.00	0.00
<b>SUBTOTAL - MATERIALS</b>				<b>23,625.00</b>

<b>B. INSTALLATION</b>				
1	LS	Trench Mobilization and Closeout	3,570.00	3,570.00
1	LS	Traffic Control	3,640.00	3,640.00
0	LF	Install Water Main: 4 inch	0.00	0.00
20	LF	Install Water Main: 6 inch	89.00	1,780.00
350	LF	Install Water Main: 8 inch	120.00	42,000.00
0	LF	Install Water Main: 12 inch	0.00	0.00
0	LF	Install Water Main: 16 inch	0.00	0.00
0	EA	Wet Tap ≤ 8 inch	0.00	0.00
0	EA	Wet Tap ≥ 10 inch	0.00	0.00
0	EA	Shut Down & Tie-In	0.00	0.00
1	EA	Cut & Cap Existing Water Main	3,529.00	3,529.00
0	EA	Line Stop (Excavation Only)	0.00	0.00
0	EA	4in Gate Valve and Box	0.00	0.00
0	EA	6in Gate Valve and Box	0.00	0.00
1	EA	8in Gate Valve and Box	367.00	367.00
1	EA	Blowoff Assembly	990.00	990.00
1	EA	Fire Hydrant Assembly	1,967.00	1,967.00
1	EA	Remove/Relocate Existing Hydrant	544.00	544.00
0	EA	Relocate Existing Meter	0.00	0.00

**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** Arrowhead Ct (Arrowhead Dr to Dead End)**WEEKS:** 3

UNITS	UNIT		UNIT COST	ESTIMATED COST
3	EA	New Long Service	3,298.00	9,894.00
3	EA	New Short Service	2,168.00	6,504.00
<b>SUBTOTAL - INSTALLATION</b>				<b>74,785.00</b>

<b>C. RESTORATION</b>				
7,700	SF	Curb-To-Curb Asphalt Paving	6.60	50,820.00
1,400	SF	Concrete Cap	10.00	14,000.00
<b>SUBTOTAL - RESTORATION</b>				<b>64,820.00</b>

<b>D. DESIGN &amp; ADMINISTRATION</b>				
36	HRS	CONSTRUCTION OBSERVATIONS	65.00	2,340.00
	%	ENGINEERING FEES	15%	20,940.75
	%	AFUDC	0.25%	187.00
1	LS	LFUCG Permit Fee	250.00	250.00
<b>SUBTOTAL - DESIGN &amp; ADMINISTRATION</b>				<b>23,717.75</b>

**TOTAL ESTIMATED COST****\$186,948.00**



**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** Pike St (Sadieville)**WEEKS:** 7

UNITS	UNIT		UNIT COST	ESTIMATED COST
<b>A. MATERIALS</b>				
20	LF	6" D.I.	40.00	800.00
1,650	LF	8" D.I.	50.00	82,500.00
0	LF	10" D.I.	60.00	0.00
0	LF	12" D.I.	85.00	0.00
0	EA	6" MJ GATE VALVE	550.00	0.00
3	EA	8" MJ GATE VALVE	700.00	2,100.00
0	EA	10" MJ GATE VALVE	1,050.00	0.00
0	EA	12" MJ GATE VALVE	1,300.00	0.00
0	EA	8" TAPPING VALVE/SLEEVE	1,100.00	0.00
0	EA	10" TAPPING VALVE/SLEEVE	900.00	0.00
0	EA	12" TAPPING VALVE/SLEEVE	1,300.00	0.00
0	EA	16" TAPPING VALVE/SLEEVE	1,400.00	0.00
11	EA	SHORT SERVICE (NON-LEAD)	250.00	2,750.00
11	EA	LONG SERVICE (NON-LEAD)	325.00	3,575.00
0	EA	SHORT SERVICE (LEAD)	400.00	0.00
0	EA	LONG SERVICE (LEAD)	500.00	0.00
1	EA	HYDRANT ASSEMBLY	2,500.00	2,500.00
0	EA	BLOWOFF ASSEMBLY	400.00	0.00
0	EA	LINESTOP	7,000.00	0.00
<b>SUBTOTAL - MATERIALS</b>				<b>94,225.00</b>

<b>B. INSTALLATION</b>				
1	LS	Trench Mobilization and Closeout	12,730.00	12,730.00
1	LS	Traffic Control	8,000.00	8,000.00
0	LF	Install Water Main: 4 inch	0.00	0.00
20	LF	Install Water Main: 6 inch	131.00	2,620.00
1,650	LF	Install Water Main: 8 inch	107.00	176,550.00
0	LF	Install Water Main: 12 inch	0.00	0.00
0	LF	Install Water Main: 16 inch	0.00	0.00
0	EA	Wet Tap ≤ 8 inch	0.00	0.00
0	EA	Wet Tap ≥ 10 inch	0.00	0.00
0	EA	Shut Down & Tie-In	0.00	0.00
1	EA	Cut & Cap Existing Water Main	3,529.00	3,529.00
0	EA	Line Stop (Excavation Only)	0.00	0.00
0	EA	4in Gate Valve and Box	0.00	0.00
0	EA	6in Gate Valve and Box	0.00	0.00
3	EA	8in Gate Valve and Box	367.00	1,101.00
0	EA	Blowoff Assembly	0.00	0.00
1	EA	Fire Hydrant Assembly	1,967.00	1,967.00
1	EA	Remove/Relocate Existing Hydrant	544.00	544.00
0	EA	Relocate Existing Meter	0.00	0.00

**KENTUCKY AMERICAN WATER****DATE:** 16-May-24**ESTIMATE FOR:** **WEEKS:** 7

UNITS	UNIT		UNIT COST	ESTIMATED COST
11	EA	New Long Service	3,298.00	36,278.00
11	EA	New Short Service	2,168.00	23,848.00
<b>SUBTOTAL - INSTALLATION</b>				<b>267,167.00</b>

<b>C. RESTORATION</b>				
36,300	SF	Curb-To-Curb Asphalt Paving	6.60	239,580.00
6,600	SF	Concrete Cap	10.00	66,000.00
<b>SUBTOTAL - RESTORATION</b>				<b>305,580.00</b>

<b>D. DESIGN &amp; ADMINISTRATION</b>				
84	HRS	CONSTRUCTION OBSERVATIONS	65.00	5,460.00
	%	ENGINEERING FEES	15%	85,912.05
	%	AFUDC	0.25%	668.00
1	LS	LFUCG Permit Fee	250.00	250.00
<b>SUBTOTAL - DESIGN &amp; ADMINISTRATION</b>				<b>92,290.05</b>

**TOTAL ESTIMATED COST****\$759,262.00**



**KENTUCKY AMERICAN WATER**  
**ESTIMATE FOR:** W. Fourth Street (Millersburg)

**DATE:** 2-Aug-24  
**WEEKS:** 4

UNITS	UNIT		UNIT COST	ESTIMATED COST
<b>A. MATERIALS</b>				
20	LF	6" D.I.	40.00	800.00
450	LF	8" D.I.	50.00	22,500.00
0	LF	10" D.I.	60.00	0.00
0	LF	12" D.I.	85.00	0.00
0	EA	6" MJ GATE VALVE	550.00	0.00
1	EA	8" MJ GATE VALVE	700.00	700.00
0	EA	10" MJ GATE VALVE	1,050.00	0.00
0	EA	12" MJ GATE VALVE	1,300.00	0.00
1	EA	8" TAPPING VALVE/SLEEVE	1,100.00	1,100.00
0	EA	10" TAPPING VALVE/SLEEVE	900.00	0.00
0	EA	12" TAPPING VALVE/SLEEVE	1,300.00	0.00
0	EA	16" TAPPING VALVE/SLEEVE	1,400.00	0.00
5	EA	SHORT SERVICE (NON-LEAD)	250.00	1,250.00
5	EA	LONG SERVICE (NON-LEAD)	325.00	1,625.00
0	EA	SHORT SERVICE (LEAD)	400.00	0.00
0	EA	LONG SERVICE (LEAD)	500.00	0.00
1	EA	HYDRANT ASSEMBLY	2,500.00	2,500.00
1	EA	BLOWOFF ASSEMBLY	400.00	400.00
0	EA	LINESTOP	7,000.00	0.00
<b>SUBTOTAL - MATERIALS</b>				<b>30,875.00</b>

<b>B. INSTALLATION</b>				
1	LS	Trench Mobilization and Closeout	8,180.00	8,180.00
1	LS	Traffic Control	50,000.00	50,000.00
0	LF	Install Water Main: 4 inch	0.00	0.00
20	LF	Install Water Main: 6 inch	131.00	2,620.00
450	LF	Install Water Main: 8 inch	150.00	67,500.00
0	LF	Install Water Main: 12 inch	0.00	0.00
0	LF	Install Water Main: 16 inch	0.00	0.00
1	EA	Wet Tap ≤ 8 inch	5,117.00	5,117.00
0	EA	Wet Tap ≥ 10 inch	0.00	0.00
0	EA	Shut Down & Tie-In	0.00	0.00
2	EA	Cut & Cap Existing Water Main	3,529.00	7,058.00
0	EA	Line Stop (Excavation Only)	0.00	0.00
0	EA	4in Gate Valve and Box	0.00	0.00
0	EA	6in Gate Valve and Box	0.00	0.00
1	EA	8in Gate Valve and Box	367.00	367.00
1	EA	Blowoff Assembly	990.00	990.00
1	EA	Fire Hydrant Assembly	1,967.00	1,967.00
1	EA	Remove/Relocate Existing Hydrant	544.00	544.00
0	EA	Relocate Existing Meter	0.00	0.00
5	EA	New Long Service	3,298.00	16,490.00

**KENTUCKY AMERICAN WATER**  
**ESTIMATE FOR:** W. Fourth Street (Millersburg)

**DATE:** 2-Aug-24  
**WEEKS:** 4

UNITS	UNIT		UNIT COST	ESTIMATED COST
5	EA	New Short Service	2,168.00	10,840.00
<b>SUBTOTAL - INSTALLATION</b>				<b>171,673.00</b>

<b>C. RESTORATION</b>				
9,900	SF	Curb-To-Curb Asphalt Paving	4.38	43,362.00
1,800	SF	Concrete Cap	10.00	18,000.00
<b>SUBTOTAL - RESTORATION</b>				<b>61,362.00</b>

<b>D. DESIGN &amp; ADMINISTRATION</b>				
48	HRS	CONSTRUCTION OBSERVATIONS	65.00	3,120.00
	%	ENGINEERING FEES	5%	11,651.75
	%	AFUDC	0.25%	429.00
0	LS	LFUCG Permit Fee	250.00	0.00
<b>SUBTOTAL - DESIGN &amp; ADMINISTRATION</b>				<b>15,200.75</b>

**TOTAL ESTIMATED COST**

**\$279,111.00**



RESOLUTION NO. 491 - 2023

A RESOLUTION AUTHORIZING THE MAYOR, ON BEHALF OF THE URBAN COUNTY GOVERNMENT, TO EXECUTE A MASTER AGREEMENT FOR UTILITY PAVING SHARE WITH KENTUCKY AMERICAN WATER COMPANY, FOR COORDINATION OF PAVING RESTORATION WORK IN THE PUBLIC RIGHT-OF-WAY, AT NO COST TO THE URBAN COUNTY GOVERNMENT.

BE IT RESOLVED BY THE COUNCIL OF THE LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT:

Section 1 – That the Mayor, on behalf of the Lexington-Fayette Urban County Government, be and hereby is authorized to execute the Master Agreement for Utility Paving Share, which is attached hereto and incorporated herein by reference, with Kentucky American Water Company, for coordination of paving restoration work in the public right-of-way, at no cost to the Urban County Government.

Section 2 – That this Resolution shall become effective on the date of its passage.

PASSED URBAN COUNTY COUNCIL: September 14, 2023

*Linda Gorton*

MAYOR

ATTEST:

*[Signature]*

CLERK OF URBAN COUNTY COUNCIL

889-23:MSC:X:\Cases\ENGINEER\23-LE0001\LEG\00795215.DOCX

**MASTER AGREEMENT  
UTILITY PAVING SHARE**

**THIS MASTER AGREEMENT** is made and entered into as of the October 10<sup>th</sup> day of 2023 (the "Effective Date") by and between **Kentucky American Water Company**, having an address of 2300 Richmond Road, Lexington, KY 40502 (hereinafter referred to as "UTILITY") and the **LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT**, an urban-county government pursuant to KRS Chapter 67A, located at 200 East Main Street, Lexington, KY 40507 (hereinafter referred to as "LFUCG"), collectively referred to as the "Parties."

**RECITALS**

**WHEREAS**, LFUCG owns and maintains public rights-of-way under the authority of Chapter 17C of the Code of Ordinances of the Lexington-Fayette Urban County Government, which is incorporated by reference as if fully stated herein; and

**WHEREAS**, Chapter 17C of the Code of Ordinances requires that all activities occurring in the public rights-of-way shall be performed in compliance with all applicable laws, ordinances, rules, and regulations and requires each party engaged in activities in the public rights-of-way to obtain all necessary permits, licenses, and authority and to pay all fees required by Chapter 17C or by other applicable laws, rules, or regulations; and

**WHEREAS**, Chapter 17C of the Code requires that each party engaged in activities in the public rights-of-way to make all reasonable efforts to minimize the number of surface cuts made and to make reasonable efforts to coordinate surface cuts with LFUCG's paving schedule, and if appropriate, to enter into joint arrangements with other parties to coordinate activities in the public rights-of-way; and

**WHEREAS**, Chapter 17C of the Code requires that any right-of-way that is disturbed or damaged during construction, excavation, installation, operation, maintenance, or repair of a facility within the right-of-way shall be repaired and restored by the party performing such activities in the public right-of-way; and

**WHEREAS**, Kentucky American Water Company. routinely performs activities to construct, excavate, install, operate, maintain, repair, and replace utility facilities located in the public right-of-way and is subject to the requirement to restore the public right-of-way; and

**WHEREAS**, LFUCG routinely maintains and improves the public right-of-way in accordance with a paving management plan and a paving schedule approved by LFUCG; and

**WHEREAS**, the parties to this Master Agreement mutually agree that the residents of Fayette County are best served with regard to activities in the public rights-of-way if such activities can be effectively coordinated by the parties and where a structure for the sharing of costs for final paving restoration of the public rights-of-way can be mutually agreed upon and administered by LFUCG pursuant to a Master Agreement, in those specific situations where LFUCG's proposed paving improvements pursuant to LFUCG's paving schedule and the proposed work of Kentucky



American Water Company coincide in terms of the timing and location of intended utility work and LFUCG's intended paving activity; and

**WHEREAS**, the parties desire to agree upon a structure for the sharing of the costs for final paving restoration, to be administered on a project-by-project basis, as determined to be appropriate by LFUCG in light of its pavement management plan and proposed paving schedule; and

**WHEREAS**, the parties have agreed that this Agreement shall serve as a Master Agreement setting forth a structure for the sharing of the costs of final paving and for the coordination of paving activity associated with utility work in the public rights-of-way, and the parties now desire to reduce their agreement to writing.

**NOW, THEREFORE**, in consideration of the premises and the foregoing mutually agreed upon promises, conditions, and covenants hereinafter set forth, Kentucky American Water Company and LFUCG hereby covenant and agree as follows:

(1) **INCORPORATION OF RECITALS.** The above recitals are incorporated herein as if fully set forth.

(2) **COST ESTIMATES AND COST ALLOCATION.** For any project for which LFUCG has determined that a paving cost share with UTILITY is appropriate, LFUCG shall provide an estimate of the total cost of final paving restoration in the public right-of-way to UTILITY. It is understood and agreed that, for the purposes of this Master Agreement, final paving restoration includes striping and other markings but does not include curbs, aprons, or disability access ramps. The estimated cost of final paving restoration shall be calculated in accordance with LFUCG's unit price contract with its paving contractor based on then-applicable unit prices. LFUCG shall also provide a proposed percentage allocation to allocate the total estimated cost for final paving restoration between the parties. The allocation shall be calculated by LFUCG based on the proportion that each party's equitable share of the final paving cost bears to the total work to be performed for the benefit of each party. In the event that a project involves work by more than one utility, LFUCG shall provide a proposed percentage allocation to allocate the total estimated cost for final restoration between LFUCG and all interested utilities based on each party's equitable share of the final paving cost bears to the total work to be performed for the benefit of each utility, provided that each interested utility has agreed to a structure for the allocation via master agreement or otherwise. LFUCG shall provide the proposed percentage allocation by providing a completed copy of a Task Order in the form provided as Exhibit A to this Master Agreement identifying the name of the street, expected dates for paving, utilities involved, and proposed sharing percentages. Not less than ten (10) business days following receipt of a Task Order and before paving begins, UTILITY may either agree to proceed under this Master Agreement or inform LFUCG that it will meet its paving obligations by use of its own paving contractor.

Each party shall pay the actual costs of final paving as allocated by LFUCG on a percentage basis under the authority of this Master Agreement. If the total estimated cost of the final paving restoration changes, LFUCG shall provide prompt notice to UTILITY of the change in cost. If the

proposed utility work changes, LFUCG shall be entitled to recalculate the percentage allocation to reflect material changes in the work. In no event shall either party be required to pay an amount in excess of the percentage allocation provided by LFUCG under the authority of this Master Agreement as applied to the total actual cost of the paving work, except by written modification to this Agreement approved by both parties.

(3) **BILLING**. All paving work in the public rights-of-way that is subject to an agreed-upon cost share under this Master Agreement shall be performed by LFUCG's unit price paving contractor, who shall be required to bill LFUCG for all work performed, subject to a percentage allocation which shall be calculated by LFUCG and further billed to each UTILITY responsible for a percentage allocation as set forth herein. The percentage allocation shall be determined by LFUCG prior to any work being performed and shall be provided by LFUCG to UTILITY and to LFUCG's unit price paving contractor prior to the beginning of the work. UTILITY shall be entitled to receive a copy of the billings made to LFUCG by its unit price paving contractor. UTILITY may request, and LFUCG shall provide, a detailed explanation of the inputs used to calculate the percentage allocation. The parties agree to meet in good faith to discuss and determine any necessary revisions to the allocation if UTILITY believes said allocation is inaccurate.

(4) **ADMINISTRATIVE FEE**. The parties recognize that the administration of paving work in the public right-of-way performed under the authority of this Master Agreement by LFUCG, including the tracking of costs, administrative oversight of the Master Agreement and LFUCG's unit price paving contractor, and the calculation and allocation of costs between the parties, results in additional administrative burden incurred by LFUCG and reduces the administrative burden incurred by UTILITY. Therefore, in order to defray the administrative expense incurred by LFUCG in administering this agreement, the parties agree that LFUCG shall be entitled to assess and collect an administrative fee from UTILITY in the amount of TWO HUNDRED DOLLARS (\$200.00) per permit. The administrative fee shall be billed once annually by LFUCG to UTILITY in an amount calculated by LFUCG based on permits pulled by the paving contractor(s) for all work subject to a cost share under this Master Agreement during the previous year.

(5) **CONSTRUCTION APPROVALS; CHANGES IN THE WORK; CHANGE ORDERS**. Any and all work performed pursuant to this Master Agreement shall be approved by LFUCG. Pursuant to Chapter 17C of the Code of Ordinances, UTILITY shall be responsible for all surface cuts and for maintenance of all temporary pavement and base preparation of the public right-of-way for two (2) years from the date of installation of any temporary pavement or base preparation by and through its unit price paving contractor. UTILITY hereby agrees to submit any changes or modifications to the planned utility work to LFUCG's Division of Engineering for consideration and approval. LFUCG reserves the right to recalculate the percentage allocation of the cost share based on material changes in the proposed utility work. LFUCG further retains the right in its reasonable discretion to demand that paving contractors or subcontractors immediately cease any portion of, or all further work undertaken within the right of way or in the scope of work described in this Agreement. Any authorized services performed, materials used or installed to the satisfaction of LFUCG before the demand to cease any and all further work shall be paid by each party in accordance with the terms of this Agreement and the allocation made thereto. UTILITY



shall notify LFUCG in writing, and obtain its approval, prior to any change to construction plans for the site or service area that will affect the shared project costs.

(6) **CHAPTER 17C OF THE CODE OF ORDINANCES INCORPORATED BY REFERENCE.** The parties hereto acknowledge and agree that nothing herein shall alter, amend, reduce, or eliminate any requirements set forth in Chapter 17C of the Code of Ordinances, and that Chapter 17C of the Code of Ordinances be and hereby is incorporated herein by reference as if fully stated herein. In the event of a conflict between Chapter 17C of the Code and this Agreement, the provisions of Chapter 17C shall control. Unless specifically waived herein, all LFUCG ordinances, manuals, rules, regulations, or similar requirements of LFUCG applicable to the subject matter of this Master Agreement shall control.

(7) **WARRANTY.** UTILITY acknowledges and agrees that Chapter 17C of the Code of Ordinances makes the party who disturbs or damages the public rights-of-way during construction, excavation, installation, operation, maintenance, or repair of a facility responsible for the repair and restoration of the public rights-of-way following completion of the activities that cause the disturbance or damage. UTILITY acknowledges and agrees that, in the event that any final paving restoration performed under the authority of this Agreement and which is subject to a cost share under this Agreement fails with regard to pavement condition or surfacing, to the extent such failure is solely due to a failure in the base work performed by the utility and/or in the event of any damage or deterioration to the final paved surface that occurs to the extent such damage or deterioration is solely due to a failure in the base work performed by the utility, UTILITY remains responsible for such damage or deterioration, notwithstanding LFUCG's participation in the final restoration of the public right-of-way by and through a sharing of costs under this Master Agreement. UTILITY remains responsible for complying with all requirements of Chapter 17C of the Code of Ordinances and other applicable law. This expressly includes, but is not limited to, the maintenance of a performance bond in favor of LFUCG, consistent with UTILITY's currently effective franchise agreement. LFUCG acknowledges and agrees that nothing in this section shall apply to paving work performed by LFUCG's paving contractor that fails for reasons other than a failure in the base work performed by UTILITY.

(8) **INSURANCE.** UTILITY shall procure and maintain commercially reasonable levels of insurance coverage as set forth in the currently effective franchise agreement at all times during the period of this Master Agreement, and shall provide LFUCG with a certificate of insurance evidencing the insurance policy required by this section. UTILITY shall provide at least thirty (30) days advance written notice via certified mail, return receipt requested, in the event that any required insurance coverages are canceled or not renewed.

(9) **TERM.** The initial term of this Master Agreement shall be for one (1) year from the date of execution. The agreement may be renewed for two (2) additional one (1) year terms by mutual agreement of the parties.

(10) **TERMINATION.** UTILITY may only terminate this Master Agreement due to LFUCG's material breach of the terms hereof, and only upon thirty (30) days written advance notice to LFUCG by registered or certified mail. Notwithstanding the foregoing, if an LFUCG breach of this Master Agreement presents a safety issue, as determined by UTILITY, UTILITY

may terminate this Master Agreement immediately. LFUCG shall have the right to terminate and cancel this Agreement at any time upon thirty (30) days written notice served on UTILITY by registered or certified mail.

(11) **DEFAULT.** No party shall be in default under this Agreement unless and until the non-defaulting party shall have given the defaulting party written notice of such default and the defaulting party shall have failed to cure the default within thirty (30) days after written receipt of such notice. Upon the failure by the defaulting party to timely cure any default after notice thereof from the non-defaulting party, the non-defaulting party shall have the right to terminate the Agreement and pursue an appropriate remedy.

(12) **INDEMNIFICATION AND HOLD HARMLESS.** It is understood and agreed by the parties that, to the extent permitted by law, UTILITY hereby assumes the entire responsibility and liability for any and all direct damages to persons or property directly caused by or resulting from or directly arising out of any negligent act or omission on the part of UTILITY that directly arises from the negligent performance or breach of this Master Agreement and/or the provision of goods and services thereby, including but not limited to any negligent act or omission related to all surface cuts made by the utility and/or temporary pavement and base preparation of the public right-of-way and/or the provision of services and the performance or failure to perform any work required thereby. UTILITY shall indemnify, save, hold harmless, and defend LFUCG and its elected and appointed officials, employees, agents, volunteers, and successors in interest from and against any and all direct liability, damages, and losses, including but not limited to, demands, claims, causes of action, judgments, penalties, fines, liens, costs, expenses that directly arise from the negligent performance or breach of this Master Agreement and/or the provision of goods or services by UTILITY under the authority of this Agreement, provided that (a) it is attributable to personal injury, bodily injury, sickness, or death, or to injury to or destruction of property (including the loss of use resulting therefrom), or to or from the negligent acts, errors or omissions or willful misconduct of UTILITY; and (b) not caused by the negligent acts or omissions or willful misconduct of LFUCG or its contractors, representatives or agents. These provisions shall in no way be limited by any financial responsibility or insurance requirements and shall survive any termination of this Master Agreement. It is further understood that, to the extent permitted by law, this provision for indemnification and hold harmless obligations is reciprocal on the part of LFUCG; provided, however, that this shall not constitute a waiver of the sovereign immunity of LFUCG or any defense which may be available to LFUCG.

Notwithstanding the foregoing, in no event shall either party be liable to the other or to any third party for any indirect, consequential, punitive or special damages, by reason of any services or acts performed, any omissions, or services or acts undertaken to be performed hereunder, or otherwise arising from this Master Agreement.

(13) **BINDING EFFECT.** This Master Agreement shall be binding upon, and shall inure to the benefit of, the executors, heirs, successors, and assigns of the parties hereto, and no party shall assign, sublet, or transfer its interests in this Master Agreement without the written consent of the other parties.

(14) **NON-WAIVER.** The failure or delay on the part of UTILITY or LFUCG to exercise any right, power or privilege hereunder shall not operate as a waiver thereof.

(15) **AMENDMENTS.** This Master Agreement may only be amended by a written agreement of all the parties hereto. No revision of this Master Agreement shall be valid unless made in writing and signed by an officer of UTILITY and an authorized signatory on behalf of LFUCG.

(16) **GOVERNING LAW; CHOICE OF FORUM.** The laws of the Commonwealth of Kentucky shall govern this Master Agreement. This Master Agreement shall be interpreted, applied and enforced according to the fair meaning of its terms and not be construed strictly in favor of or against either party, regardless of which party may have drafted any of its provisions. Any action brought against UTILITY and/or LFUCG on this Master Agreement, including but not limited to actions either for breach of the agreement or for enforcement of the agreement, shall be brought in a court of appropriate jurisdiction in Fayette County, Kentucky.

(17) **SEVERABILITY.** In the event that any one or more of the provisions contained herein shall, for any reason, be held to be invalid, illegal or unenforceable in any respect, such invalidity, illegality or unenforceability shall not affect any other provisions of this Master Agreement.

(18) **NO THIRD PARTY RIGHTS.** Nothing in this Master Agreement, expressed or implied, is intended or shall be construed to confer upon or give to any person other than the parties hereto any right, remedy, or claim under or by reason of such agreement or covenant, condition, or stipulation herein contained. Nothing expressed or mentioned in or to be implied from this Master Agreement is intended or shall be construed to give to any person other than the parties hereto any legal or equitable right, remedy, or claim under or in respect to this Master Agreement.

(19) **KENTUCKY PUBLIC SERVICE COMMISSION.** The parties agree that any order, Tariff, rule, or regulation of the Kentucky Public Service Commission or other jurisdictional utility regulator shall take precedence and control over the terms of this Agreement as to that utility party and issue in the event of a conflict. The parties also agree that in some circumstances it may be in their best interest to seek a deviation or relief from such order, Tariff, rule, or regulation in order to fulfill the terms of this Agreement.

(20) **NOTICES.** All notices, consents, demands, or other communications required or permitted to be given or made hereunder shall be sufficiently given or made if given in writing, mailed by reliable overnight courier or by Certified Mail, return receipt, in a sealed envelope, postage prepaid, addressed to the following addresses:

LFUCG:                   Urban County Engineer, LFUCG Division of Engineering  
                               Lexington-Fayette Urban County Government  
                               101 E Vine St.  
                               Lexington, KY 40507

With  
 copies to:               Commissioner of Law



Lexington-Fayette Urban County Government  
200 East Main Street  
Lexington, KY 40507

UTILITY: Kentucky American Water Company  
2300 Richmond Road  
Lexington, KY 40502

UTILITY or LFUCG may from time to time designate any other address for this purpose by written notice to the other Party.

(21) This Master Agreement may be executed in duplicate counterparts, each of which shall be deemed an original. In the event that any signature is delivered by facsimile or by email of a “.pdf” format data file, such signature shall create a valid and binding obligation of such party with the same force and effect as if such facsimile or “.pdf” signature page were an original thereof.

(22) The execution, delivery and performance of this Master Agreement and any documents relating hereto have been duly authorized by all necessary parties, and this Master Agreement is enforceable in accordance with its terms. UTILITY and LFUCG have full power and authority to enter into this Master Agreement, to execute and deliver all instruments and documents referred to herein and to consummate the transactions contemplated hereby.

IN WITNESS WHEREOF, the parties by their authorized representative have executed this Master Agreement as of the Effective Date.

**LEXINGTON-FAYETTE URBAN  
COUNTY GOVERNMENT**

BY: *Linda Gorton*  
Linda Gorton, Mayor

ATTEST:

*Deputy* *Maureen J. Gault*  
Clerk of the Urban County Council



**TASK ORDER #XX**  
**TO MASTER AGREEMENT – UTILITY PAVING SHARE**  
 Between  
**LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT (“LFUCG”) And**  
**KENTUCKY AMERICAN WATER CO. (“Utility”)**  
 FOR  
**[PROJECT NAME] Paving Share**

Article 1 – This task order is pursuant to the Master Agreement made and entered into as of the \_\_\_\_\_ day of \_\_\_\_\_, 202\_ (the “Effective Date”) by and between \_\_\_\_\_ KENTUCKY AMERICAN WATER CO. and LFUCG.

Article 2 – The parties desire to agree upon a structure for the sharing of the costs for final paving restoration, to be administered on the locations indicated on the attached paving sharing schedule.

Article 3 – Utility’s Representative in charge of the services is \_\_\_\_\_ [NAME] who may be contacted at \_\_\_\_\_ [PHONE NUMBER, EMAIL]. LFUCG’s Representative in charge of the services is \_\_\_\_\_ [NAME] who may be contacted at \_\_\_\_\_ [PHONE NUMBER, EMAIL].

Article 4 – The Services performed within the Task Order should commence on or about \_\_\_\_\_ [DATE] and should be complete on or before \_\_\_\_\_ [DATE].

Article 5 – Payment shall be as defined in the Master Agreement and as outlined on the attached paving sharing schedule. If it becomes necessary for time and efforts to exceed these amounts using the agreed upon rates, an agreement must be reached between the Utility’s Representative and LFUCG for additional time and expense and the Task Order shall be updated.

Payment procedures shall be made in accordance with the above referenced Master Agreement.

PREPARED BY: \_\_\_\_\_ (LFUCG) Date \_\_\_\_\_

Agreed to by:

**UTILITY**  
**KENTUCKY AMERICAN WATER CO.**

**OWNER**  
**LEXINGTON-FAYETTE URBAN COUNTY**  
**GOVERNMENT**

By \_\_\_\_\_

By \_\_\_\_\_

Title \_\_\_\_\_

Title \_\_\_\_\_

Date \_\_\_\_\_

Date \_\_\_\_\_






MAYOR LINDA GORTON



LEXINGTON

NANCY ALBRIGHT, COMMISSIONER  
 ENVIRONMENTAL QUALITY &  
 PUBLIC WORKS

TO: Linda Gorton, Mayor  
 Urban County Councilmembers

FROM:   
 Nancy Albright, Commissioner  
 Department of Environmental Quality

DATE: August 28, 2023

RE: Master Agreement Utility Paving Share between Kentucky American Water Company and LFUCG

**Request:**

This is to request a Resolution authorizing the Mayor, on behalf of the Urban County Government, to execute a Master Agreement, Utility Paving Share, between Kentucky American Water Company and LFUCG.

**Why are you requesting?**

Chapter 17C of the Code of Ordinances establishes authority with LFUCG for the maintenance and oversight of the public right-of-way. Kentucky American Water Company routinely performs activities to construct, excavate, install, operate, maintain, repair, and replace utility facilities located in the public right-of-way and is subject to the requirement to restore the public right-of-way. This Master Agreement establishes the opportunity to coordinate restoration in the public right-of-way. Where a structure for the sharing of costs for final paving restoration within the public rights-of-way can be mutually agreed upon, paving will be administered by LFUCG pursuant to this Master Agreement.

*The initial term of this Master Agreement shall be for one (1) year from the date of execution. The agreement may be renewed for two (2) additional one (1) year terms by mutual agreement of the parties.*

*UTILITY may only terminate this Master Agreement due to LFUCG's material breach of the terms hereof, and only upon thirty (30) days written advance notice to LFUCG by registered or certified mail. Notwithstanding the foregoing, if an LFUCG breach of this Master Agreement presents a safety issue, as determined by UTILITY, UTILITY may terminate this Master Agreement immediately. LFUCG shall have the right to terminate and cancel this Agreement at any time upon thirty (30) days written notice served on UTILITY by registered or certified mail.*

**What is the cost in this budget year and future budget years?**

There is no cost to the urban county government.

File Number:

EQPW/Nancy Albright



NAME	WBS	EST. LENGTH (LF)	EST. PROJECT COSTS	ACTUAL LENGTH (LF) (6/30/24)	ACTUAL PROJECT COSTS (6/30/2024)	VARIANCE COMMENTS
Todds Road @ Pricetown Ln	R12-02B2.23-P-0002	850	\$254,571	946	\$188,171	
Samuel Ln	R12-02B2.23-P-0003	575	\$168,046	448	\$98,426	
Uhtan Ct	R12-02B2.23-P-0004	390	\$134,902	389	\$225,104	
Old Leestown	R12-02B2.23-P-0021	1,790	\$513,665	1,954	\$510,924	
Adair/Madison/Gess (Owenton)	R12-30B2.23-P-0002	2,215	\$666,537	2,333	\$1,149,836	Additional 120' of pipe required for tie-in locations. The restoration requirements in KYTC right of way were full concrete road repair and caused increased restoration costs.
Strathmore Rd	R12-02B2.23-P-0006	970	\$306,794	1,010	\$505,892	
Eastin Rd/Grandin Rd	R12-02B2.23-P-0007	1,000	\$325,313	730	\$542,379	
Ranier Dr	R12-02B2.23-P-0008	715	\$242,793	710	\$494,304	
Pine St	R12-02B2.23-P-0041	2,040	\$584,742	2,032	\$657,649	
Maxwell (Broadway to Cross)	R12-02B2.23-P-0046	2,042	\$921,643	2,071	\$606,918	
Sulphur Ln	R12-02B2.23-P-0009	730	\$219,231	0	\$0	Will be installed with Centerville/Boone Ln
N Cleveland Rd	R12-02B2.23-P-0010	2,620	\$210,106	0	\$0	Will be installed with Centerville/Boone Ln
Centerville Ln/Boone Ln	R12-02B2.23-P-0011	1,865	\$489,097	0	\$0	Currently under easement acquisition. Project area is privately owned.
Cross St	R12-02B2.23-P-0040	400	\$131,495	466	\$187,509	
Merino St	R12-02B2.23-P-0042	753	\$254,840	715	\$242,541	
Patterson St	R12-02B2.23-P-0043	691	\$231,523	671	\$277,999	
Spring St	R12-02B2.23-P-0044	377	\$133,860	425	\$149,882	
Dunaway St	R12-02B2.23-P-0045	632	\$208,313	656	\$197,641	
Campsie Pl/Ct	R12-02B2.23-P-0014	775	\$290,288	907	\$527,261	Increased pipeline installation costs due to many utility conflicts within the construction area. Curb to curb restoration required vs. one-lane estimated.
Ohio St	R12-02B2.23-P-0015	1,575	\$445,041	1,558	\$937,333	Increased pipeline installation costs due to many utility conflicts within the construction area. Curb to curb restoration required vs. one-lane estimated.
Johnson Ave	R12-02B2.23-P-0016	780	\$312,323	748	\$501,800	Increased pipeline installation costs due to many utility conflicts within the construction area. Curb to curb restoration required vs. one-lane estimated.
Silver Maple Way	R12-02B2.23-P-0017	795	\$306,703	795	\$591,812	Increased pipeline installation costs due to many utility conflicts within the construction area. Curb to curb restoration required vs. one-lane estimated.
Forest Ave/Skain St/Indiana Ave	R12-02B2.23-P-0039	2,658	\$927,880	2,981	\$863,994	
Old Sweet Owen	R12-30B1.21-P-0002	3,000	\$888,783	3,398	\$451,398	
E Seventh St - N Lime to Maple	R12-02B2.23-P-0018	1,190	\$440,659	1,174	\$894,138	
Delmar Ave/Boonesboro Ave/Bell Pl/Bell Ct	R12-02B2.23-P-0037	2,281	\$810,534	2,475	\$878,424	
Russell Ave/E & W Bell Cts/Sayre Ave	R12-02B2.23-P-0038	3,380	\$1,067,965	3,220	\$1,226,484	
Curley Ave	R12-02B2.23-P-0022	345	\$139,167	360	\$130,892	
Wilson St - Curley to Eastern	R12-02B2.23-P-0023	402	\$147,984	400	\$166,438	
Corral St - Elm Tree to Race	R12-02B2.23-P-0024	1,033	\$364,865	1,085	\$296,637	
Gunn St	R12-02B2.23-P-0027	488	\$172,843	452	\$80,422	
Niagara (to Trout) and Trent	R12-02B2.23-P-0032	4,027	\$1,320,790	4,171	\$1,329,677	
Maryland Ave	R12-02B2.23-P-0033	1,144	\$427,452	1,137	\$457,248	
Dove Run Rd	R12-02B2.23-P-0012	930	\$267,488	970	\$238,448	
Bermuda Ave	R12-02B2.23-P-0019	605	\$213,025	630	\$235,817	
E Second St - Elm Tree to Race	R12-02B2.23-P-0025	1,120	\$400,791	1,020	\$249,049	
Eastern Ave - E Third to before E Short	R12-02B2.23-P-0026	1,100	\$384,304	1,080	\$309,220	
W Second St (Gtown to Jefferson)	R12-02B2.23-P-0034	916	\$339,121	885	\$309,163	
Jefferson St (W Short to W Third)	R12-02B2.23-P-0035	1,775	\$630,707	1,696	\$820,601	
Tower Plz	R12-02B2.23-P-0036	412	\$161,025	392	\$164,598	
Rosemont Garden	R12-02B2.23-P-0047	1,060	\$562,844	1,057	\$907,346	Significant restoration limits due to construction within small area of intersection, entire intersection was required to be restored.
Greentree Rd/Cir/Ct	R12-02B1.22-P-0004	5,765	\$1,533,697	5,000	\$1,763,119	5,000 of 5,765 is in-service. The remaining footage is being installed in coordination with LFUGG's sewer project.
Locust Ave	R12-02B2.23-P-0020	1,760	\$510,570	1,788	\$718,996	
Caulder Rd	R12-02B2.23-P-0028	1,235	\$376,882	1,265	\$450,615	
Keeneland Ct	R12-02B2.23-P-0029	785	\$248,196	797	\$229,891	
Hot Springs Ct	R12-02B2.23-P-0030	710	\$229,461	734	\$229,399	
Hialeah Ct	R12-02B2.23-P-0031	714	\$231,940	735	\$222,818	
TOTAL FEET		63,415	\$20,150,799	58,466	\$22,218,211	
TOTAL MILES		12.01	total \$	11.07	total \$	