



Board Memo

To: SD1 Board of Directors
Adam Chaney, Executive Director

From: Dave Gilligan, Project Manager
Brandy Miller, Purchasing Administrator

Date: July 20, 2021

Subject: Central Boone County Sewer Master Plan – Design of Phase III and IV
Strategic Plan Goal Alignment (select all that apply)

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| ☐ Customer Satisfaction | ☒ Stakeholder Support |
| ☒ Financial Viability | ☒ Operational Efficiency and Resiliency |
| ☒ Environmental Stewardship | ☒ Optimal Infrastructure Management |
| ☐ Workforce Dedication | |

Project Background

In 2020, Boone County established the installation of sewers south of I-275 and north of the existing sewer tunnel to the Western Regional Water Reclamation Facility as its number one growth priority. Based on its priority and in anticipation of potential federal funding, the Central Boone County Sewer Master Plan (CBCS) project was included in the FY2022 budget and long-term financial model at a cost of \$60.4M with a scheduled start date in 2022.

In March 2021, the American Rescue Plan Act (ARPA) was signed into law. ARPA allocates funds to municipalities specifically for water, sewer, and broadband projects. Local ARPA funds are being administered by the State of KY through the Kentucky Infrastructure Authority (KIA). Boone County has requested \$4.905 of its directly allocated ARPA funding be used for the CBCS project and has requested an additional \$6.1M in funding for the project from a secondary funding pool earmarked for rural expansion and consent decree projects. Projects receiving funds must be completed prior to the ARPA deadline of December 2024.

The project is currently planned to be constructed in five (5) phases to best match construction scopes with funding sources. Boone County anticipates requesting additional funds for this project as more federal funding becomes available. Timing of project phases can be coordinated with the timing of these funds when/if they become available.

In addition to ARPA funding, the CBCS project will generate additional savings through the elimination of Bullittsville Pump Station upgrades. The Updated Watershed Plan calls for an EQ

Facility at the existing Bullittsville Pump Station to eliminate current SSOs as well as eliminate SSOs in the area as Boone County development occurs. The construction of the CBCS project will eliminate the need for the Bullittsville EQ estimated at a cost of \$9.97M.

The combination of federal funding and the elimination of the Bullittsville EQ will provide \$20M or more in capital savings over the course of the Consent Decree timeline. The project, when complete, will eliminate approximately 1 million gallons of SSOs in the typical year, based on the 2029 hydraulic model, and open large areas of central Boone County for future growth.

This request is for the design of phases III and IV. An RFP for the design of Phases I and II is currently being reviewed and will be brought before the Board at the August meeting. Phase V is an EQ facility that will be designed on a TBD timeframe based on future growth.

On Jun 2, 2021, SD1 issued a Request for Proposals for Design and Construction Administration for Phases III and IV of the Central Boone County Sewer Master Plan project with the expectation that it would result in a contract with the responsive and responsible proposer whose proposal is the best value for SD1.

A pre-proposal meeting was held at the SD1 main office on June 14, 2021. Ten (10) design consultants or firms were represented. Electronic proposals were due to SD1 on June 30, 2021.

Anticipated Return on Investment or Other Applicable Metrics

The project is directly aligned with the organizational strategic goals, objectives, and strategies:

- Once all phases of the Central Boone County Sewer Master Plan are constructed the capacity of the conveyance system in this area will be increased to avoid SSOs in the 2 YR 6 HR storm event through the 2040 anticipated flows
- Project will provide infrastructure consistent with and necessary for compliance with Consent Decree requirements.
- Project meets the financial goals of SD1 by meeting the forecasted budget.
- Project addresses community needs for growth

CIP Category

X	Asset Management
X	Consent Decree
X	Capacity Pinch Point
X	Community Needs

Procurement

Competitive Bid

Funding Source

Budget/Funding/Capital Code: C708-ENG-020

ARPA funds Boone County \$4,905,000 guaranteed funding
ARPA fund Boone County \$6,100,00 Funding application submitted
Total Approved Project Budget: \$60,400,000
FY 2022 Spend Budget: \$1,000,000

Related Expenditures To-Date

Prior Expenses: \$ 7,036.01

Estimated Remaining Cost to Complete

Design:	\$ 3,000,000.00
Design Admin:	\$ 300,000.00
Land Acquisition:	\$ 1,000,000.00
Construction Estimate:	\$43,330,0000.00
Construction Contingency:	\$ 8,666,000.00
Construction Administration:	\$ 1,083,250.00
Field Engineering:	\$ 847,213.99
Inspection:	\$ 2,166,500.00
Total Remaining:	\$ 60,392,963.99
Total Project:	\$ 60,400,000.00

Proposal Summary

On June 30, 2021, SD1 received Six (6) proposals for the Design and Construction Administration of Phases III and IV of the Central Boone County Master Plan project. The proposers included Tetra Tech, CT Consultants, Gresham Smith, GRW, Palmer, and DLZ Kentucky.

Tetra Tech	\$ 785,000.00
CT Consultants, Inc.	\$ 827,472.50
Gresham Smith	\$ 978,210.00
GRW	\$1,119,588.00
Palmer Engineering	\$1,323,355.00
DLZ Kentucky, Inc.	\$1,328,803.13

Recommendation for Board Action

SD1 staff recommends the Board award a contract for the Design and Construction Administration of Phases III and IV of the Central Boone County Master Plan project to Tetra Tech, as their proposal is the best value, at the total cost proposal submitted of \$785,000.00.