



**To:** Honorable Mayor and Members of Town Council

**Through:** David L. Corliss, Town Manager

**From:** Mark Marlowe, P.E., Director of Castle Rock Water  
Matt Benak, P.E., Water Resources Manager  
Walt Schwarz, P.E., CIP Project Manager

**Title:** Resolution Approving a Service Agreement between the Town of Castle Rock and Burns & McDonnell Engineering Company to complete Design and Bid Phase Services for the Parker MidSection Pipeline Project *[along the eastern side of Rueter-Hess Reservoir, Douglas Co.]*

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### **Executive Summary**

Castle Rock Water (CRW) staff requests approval of a Resolution (see **Attachment A**) approving a Services Agreement (see **Exhibit 1**) with Burns & McDonnell Engineering Company (BMcD) to complete engineering services for the Parker MidSection Pipeline project at contract amount of \$450,951. This cost includes design and bid phase services for the potable water distribution system infrastructure needed to convey WISE water from the Parker Water and Sanitation District's (PWSD) water distribution system to CRW's existing water distribution system. Staff also requests approval for a 10% Town-managed contingency of \$45,095, for a total project authorization of \$496,046.

A competitive request for proposal process was used to obtain proposals from qualified consulting firms. Each proposal was evaluated from a qualitative standpoint and then proposed fees were reviewed. Fees ranged from \$395,000 to \$641,392 for these design related and bid phase services. Four proposals were received and reviewed by staff from CRW, PWSD, and Dominion Water & Sanitation District (DWSD). After a qualitative review of proposals and consideration of proposed design fees, BMcD was selected as the recommended firm.

BMcD shall undertake the work upon execution of the agreement and shall complete work eleven months thereafter. Funding for this project was budgeted in the 2021 budget line item "WISE Infrastructure". The resulting product will be bidding and construction documents to be used for bidding the construction work in spring 2022. Construction is expected to be completed by the end of 2023.

## **History of Past Town Council, Boards & Commissions, or Other Discussions**

On March 16, 2021, Town Council approved a resolution for an Intergovernmental Agreement (IGA) between the Town of Castle Rock and PWSD for design, construction, and project management of this project. Because PWSD does not have an immediate need for this project, Castle Rock will be funding the entire project up front, with PWSD paying back their portion (an estimated \$7.05 million) in early 2024 and Dominion paying their portion (an estimated \$1.6 million) in accordance with a future IGA between Castle Rock and Dominion.

Castle Rock Water staff presented this design contract to the Castle Rock Water Commission at their meeting held on April 28, 2021, the Castle Rock Water Commission voted **XX to XX** to recommend Town Council approve the Resolution as presented.

### **Discussion**

On March 6, 2018, the Town and PWSD entered into a Wheeling Agreement for PWSD to transport WISE and other water to the Town through portions of the infrastructure owned and operated by PWSD. This agreement also discussed a bottleneck in PWSD's system that limits Castle Rock's (and Dominion's) flows to 1 million gallons per day (MGD) until December 31, 2023. After this date, Castle Rock and Dominion would no longer own capacity in the existing 24-inch diameter pipeline section.

The recently approved IGA between the Town of Castle Rock (TCR) and PWSD was completed for design and construction of a new 42-inch diameter potable water distribution pipeline (this Parker Midsection Pipeline, about 2.5-miles in length) and increase capacity of the existing PWSD Canyons Pump Station. As part of the Midsection Pipeline project, the PWSD's Canyons Pump Station will be expanded to increase Castle Rock's capacity from 3 MGD to 8.8 MGD. A location map (**Attachment B**) is provided that shows the existing 24-inch diameter PWSD pipeline along the eastern side of the Rueter-Hess Reservoir. The proposed 42-inch diameter Midsection pipeline will be designed near to and may parallel the existing 24-inch pipeline in sections (actual alignment and connection points to be determined during this design phase). Limits of the Midsection pipeline extend from near the Rueter-Hess Water Purification Facility on the northern end and to near the PWSD Hess Tank on the southern end.

Some key terms established in the IGA include that CRW will manage the project and provide regular updates to PWSD. An invoice for final cost reimbursement will be sent to PWSD upon completion of the construction phase of the project. Also after construction completion, the TCR will convey ownership of the new infrastructure to PWSD by Bill of Sale (CRW will maintain capacity in the pipeline and pump station).

On March 8, 2021, CRW publically advertised on BidNet a Request for Proposals (RFP) No. 2021-02 to provide engineering services for this Parker Midsection Pipeline Project. Proposals were received on April 7, 2021 from four consulting firms in response to this RFP. The following table lists the total proposal costs received from each of the four firms.

<b>Consulting Firm</b>	<b>Total Cost</b>
PSI	\$395,000
Burns & McDonnell	\$450,951
Providence Infrastructure	\$544,523
AE2S	\$641,392

Staff from PWSD, DWSD, and CRW reviewed the received proposals. There was consensus among reviewers that the low cost proposal received from PSI did not demonstrate sufficient experience or completeness to be considered for award of this project. The next lowest cost proposal was received by BMcD in the amount of \$450,951.

BMcD specializes in municipal water infrastructure design, bidding and construction phase services. Construction phase services are not part of this current contract and would be negotiated and considered for award under a separate, future contract. BMcD has successfully completed design through facility start-up services on similar projects such as the Town's WISE Local Infrastructure project (from Outter Marker Rd in Douglas County to CRW's Ray Waterman Regional Water Treatment Center). BMcD has consistently delivered excellent value and engineering services when completing CRW projects.

### **Budget Impact**

Funding for this design project was budgeted in 2021 and will come from account 211-4375-443.77-72 Water Resources, CIP – WISE Infrastructure, Project Code <WR WLI>. This account has a budget of \$2,300,694 for 2021.

### **Staff Recommendation**

Staff and CRW Commission recommend that Town Council approve the Resolution approving the Agreement as presented in Exhibit 1 in the amount of \$450,951 plus a Town-managed contingency of \$45,095 for a total cost not to exceed \$496,046.

### **Proposed Motion**

*"I move to approve the Resolution as introduced by title."*

### **Attachments**

Attachment A: Resolution  
Exhibit 1: Agreement  
Attachment B: Location Map