



STAFF REPORT

To: Honorable Mayor and Members of Town Council

Through: David L. Corliss, Town Manager

From: Mark Marlowe, P.E., Director of Castle Rock Water
Lauren Moore, Water Resources Manager
Emily Huth, P.E., Project Manager CIP - Water

Title: **A Resolution Approving a Third Amendment to the Services Agreement between the Town of Castle Rock with Burns & McDonnell Engineering Company, Inc. for the Chatfield Reservoir Pump Back Project** *[Located in Northwestern Douglas County]*

Executive Summary

Castle Rock Water (CRW) seeks Town Council approval of a Resolution (**Attachment A**) approving the Third Amendment to the Services Agreement (**Exhibit 1**) with Burns & McDonnell Engineering Company, Inc. (BMCD) for additional design and permitting services for the Chatfield Pump Back Project.

The original contract was authorized for \$384,063.90, which included a contract value of \$349,149.00 and a 10% contingency of \$34,914.90. Two previous amendments extended the contract term but did not change the authorized amount.

The Third Amendment increases the contract value by \$556,551.00 to support:

- Completion of 20% design for infrastructure serving the Ravena Golf Course; and
- Permitting services to obtain NEPA designation for the project.

This approval request includes a 10% town-managed contingency of \$55,650.64 for a total project authorization of \$961,350.64. This amendment also extends the contract date to December 31, 2026.

Notification and Outreach Efforts

As part of the prior Preliminary Engineering and Design phase in 2022-2024, outreach was made to the Chatfield State Park leadership. As the 20 Percent Engineering and Permitting

phase begins, additional outreach will be made to the park leadership and to pipeline easement and booster pump station landowners once the final pipeline alignment is known.

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

On August 31, 2022, Castle Rock Water Commission recommended approval of the Services Agreement between the Town of Castle Rock and Burns & McDonnell Engineering Company, Inc. for Chatfield Reservoir Pump Back Project Infrastructure Preliminary Engineering and Design Services.

On September 22, 2022, Town Council approved Resolution 2022-103 for the Services Agreement between the Town of Castle Rock and Burns & McDonnell Engineering Company, Inc. for Chatfield Reservoir Pump Back Project Infrastructure Preliminary Engineering and Design Services.

On September 20, 2023, Town Manager approved the First Amendment to the Services Agreement between the Town of Castle Rock and Burns & McDonnell Engineering Company, Inc. for Chatfield Reservoir Pump Back Project Infrastructure Preliminary Engineering and Design Services.

On September 5, 2024, Town Manager approved the Second Amendment to the Services Agreement between the Town of Castle Rock and Burns & McDonnell Engineering Company, Inc. for Chatfield Reservoir Pump Back Project Infrastructure Preliminary Engineering and Design Services.

Castle Rock Water staff presented this item to the Castle Rock Water Commission at their meeting held on October 22, 2025, and the Castle Rock Water Commission voted unanimously 5 to 0 to recommend Town Council approval of the Resolution as presented.

Discussion

The Town of Castle Rock (Town) has the capacity to store 2,000 acre-feet of water in the Chatfield Reservoir, which is owned by the U.S. Army Corps of Engineers (USACE). This stored water originates from the Town's junior water rights on the South Platte River and rights on East Plum Creek, West Plum Creek, Plum Creek, and Indian Creek.

Currently, there is no infrastructure that allows for direct transfer of water from Chatfield Reservoir back to the Town. To use the stored water, the Town relies on a transfer exchange whereby water is released from Chatfield Reservoir into Plum Creek in an amount equal to what is diverted at either of the Town's diversions, CR-1 or Plum Creek Diversion (PCD), which supplies CRR1 and CRR2 reservoirs. PCD includes a pump station that transfers water from CRR1 and CRR2 to the Plum Creek Water Purification Facility (PCWPF) for treatment.

CRW's Water Resources Strategic Master Plan identifies the Chatfield Reservoir Pump Back infrastructure as a key component of the Town's renewable water strategy. Water from Chatfield Reservoir contains lower total dissolved solids (TDS) than the Plum Creek water currently diverted and stored in CRR1 and CRR2, making it a higher quality source for treatment. It is advantageous to have the ability to directly pump high quality water from

Chatfield Reservoir back to the Town for treatment and the Chatfield Pump Back project will ultimately achieve that goal. The ultimate goal of the project is to enable direct pumping of water from Chatfield Reservoir to the Town for purification and use.

The Chatfield Pump Back Project will include the following major infrastructure elements:

- An intake structure and pump station at Chatfield Reservoir;
- A booster pump station and possibly a storage/surge tank (approx. halfway and nearby Ravenna Golf Course);
- Infrastructure to deliver water to the Ravenna Golf Course, which is currently supplied from CRR1 and CRR2; and
- Approximately 12 miles overall of transmission pipeline ultimately connecting to CRR1 and CRR2.

In 2022, BMcD was competitively selected to provide preliminary engineering and design services for the project. This effort identified a preferred site for the intake and pump station within Chatfield State Park (land leased by USACE to the State of Colorado), potential sites for the booster pump station and tank, and a proposed pipeline alignment (with two alternatives under consideration for the initial segment).

The Third Amendment will advance the next phase of the project (Phase 1 Design) and will include the following key tasks:

- Finalize site locations for the booster pump station and storage tank;
- Environmental field surveys (habitat assessment and wetland delineation) required for NEPA determination, which is a prerequisite to Section 404 and 408 permitting; and
- Advance design to the 20% level to support USACE Section 404 and Section 408 pre-application reviews.

Phase 1 Design focuses on near-term infrastructure necessary to deliver water to the Ravenna Golf Course. It includes the intake and pump station at Chatfield Reservoir, approximately 5.5 miles of raw water pipeline, and potentially the booster pump station and tank, depending on final site selection. Additionally, the project scope is being refined to streamline permitting, reduce design costs, and create a focused package for USACE Section 404 and 408 review. Remaining infrastructure, such as the rest of the pipeline and potentially the booster pump station and storage tank, will be designed under a separate package and issued as a future Request for Proposals (RFP).

Budget Impact

Funding for this project will come from the account listed below. A budget transfer of \$41,000 from Account 211-211-4375-443.77-54 will be completed to fund this project.

Account Number	Current Balance	Amendment 3 Requested Authorization	Budget Transfer	Account Balance
211-4375-443.78-03 (Chatfield West Alt Project)	\$537,281.54	\$577,286.74	\$41,000	\$578,284.51

The following table summarizes the total authorization requests for this project, including Amendment 3, which is under consideration. Amendments 1 and 2 were executed to extend the contract date and did not impact the contract value. The contingency value that will be available after the requested authorization is approved (\$55,650.64) equates to 10% of the Amendment 3 contract value.

Agreement	Contract	Contingency	Total Authorization
<i>Previously Approved</i>			
RESO 2022-103 Original Agreement (Approved 9/20/2022)	\$349,149.00	\$34,914.90	\$384,063.90
Amendment 1 (Approved 9/22/2023)	-	-	-
Amendment 2 (Approved 9/5/2024)	-	-	-
Invoiced to Date	\$349,149.00	\$0.00	-
<i>Amount Remaining</i>	<i>\$0.00</i>	<i>\$34,914.90</i>	<i>-</i>
<i>Under Consideration</i>			
Amendment 3	\$556,551.00	20,735.74	\$577,286.74
<i>Amended Total</i>	<i>\$905,700.00</i>	<i>\$55,650.64</i>	<i>\$961,350.64</i>

Staff Recommendation

Staff recommends Town Council approval of the Third Amendment to the Services Agreement with Burns & McDonnell Engineering, Inc. for continued design and permitting services for the Chatfield Reservoir Pump Back Project.

Proposed Motion

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

Alternative Motions

"I move to approve the resolution as introduced by title, with the following conditions: (list conditions)."

"I move to continue this item to the Town Council meeting on _____ date to allow additional time to (list information needed)."

Attachments

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