

CASTLE ROCK WATER

**RESOLUTION APPROVING A SERVICE AGREEMENT
WITH PROVIDENCE INFRASTRUCTURE
CONSULTANTS, INC., FOR THE PLUM CREEK TO
RUETER-HESS RESERVOIR PIPELINE
INFRASTRUCTURE PROJECT**

APRIL 5, 2022



PC TO RHR PIPELINE INFRASTRUCTURE

PROJECT BACKGROUND

- 8,000 acre feet (AF) storage in RHR
- Limited options to divert to RHR
 - Small amount from Cherry Creek (~100 AF/year)
 - Majority from Plum Creek (~1,000 AF/year)
 - Identified in master plan
 - Reclaimed and reusable groundwater
 - Withdraw in peak demand periods
 - Deliver through WISE pipeline



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PROJECT APPROACH/SCHEDULE

- Request For Proposals (Mar '21) → selected Providence (alignment study and preliminary design)
- Alignment study completed (Sep '21)
 - 4 alignment alternatives identified
 - Eastern alignment selected
- Refined alignment and completed preliminary design (Mar '22)
- Final design – May '22 – Jul '23
- Construction – Sep '23 – Dec '24



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PROJECT COMPONENTS

Proposed Alignment

- ~7.5 miles of 16-inch diameter pipeline
- Connect to raw water pipeline from Plum Creek Diversion
- Booster pump station east of I-25
- Multiple trenchless construction crossings anticipated (Plum Creek, UPRR, Highway 85, I-25)
- Submerged outlet structure at RHR
- 36 parcels identified for potential right of way acquisition
- ROW acquisition services solicited separately



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FINAL DESIGN SCOPE

- Sole Source Contract w/ Providence
 - Appropriate scope and fee
 - Expedite schedule
 - Maintain project continuity
 - Successful track record
- Construction documents for pipeline, pump station, and outlet structure
- Meeting coordination w/ CDOT for crossings
- Survey and utility locate coordination
- Geotechnical engineering for open trench and trenchless crossings
- Permitting assistance (environmental, cultural, municipal, Douglas County)
- Construction bid assistance and contract award recommendation



PC TO RHR PIPELINE INFRASTRUCTURE

BUDGET, SCHEDULE, RECOMMENDATIONS

Final Design Budget - \$1,262,595 Contract + \$126,300 Town Managed Contingency

Project	Account	2022 Budget	Available Balance	This Authorization
Newlin Gulch PL & PS	211-4375-443.78-04	\$10,000,000	\$9,859,026	\$1,388,895

Project Budget

Alignment Study/Preliminary Design	\$220,697	Encumbered
Preliminary Geotech	\$19,528	Encumbered
Corridor Survey	\$174,175	Proposed
Final Design	\$1,388,895	Proposed
Right of Way Acquisition Services	\$250,000	Estimated
Right of Way Acquisition	\$1,000,000	Estimated
Construction Phase Engineering	\$500,000	Estimated
Construction	\$16,000,000	Estimated
Total Estimated Cost:	\$19,553,295	

Final Design schedule

- May 2022 through July 2023

Construction schedule

- 2023 through 2024

Recommendations

- Staff
- Water Commission

Questions?

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MOTION OPTIONS

PROPOSED MOTION:

“I move to approve the Resolution 2022-043 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).”