

## K · F R I E S E + ASSOCIATES

PUBLIC PROJECT ENGINEERING

## Water Systems Improvements Update

Greg Blackburn, PE | City Council Meeting 06.21.2023

3003 BEE CAVES RD RANDOLP

SOUTH

BEE CAVES

ROLLINGWOOD

8 GROVE CT

ZTZ0 BEI



### Agenda

WATER CIP RECAP

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SCHEDULE

COST ESTIMATES

COMMUNITY OUTREACH

QUESTIONS

Our team has created a Bond Program management approach that maximizes **opportunities for savings** and **upholds schedule targets**.

## Water Capital Improvements Plan Recap

 2022 Water CIP includes 20 water system improvement projects

Five (5) proposed packages approved by Council (February)

Council approved contract to design Packages 1-4 (March)

Package 5 (abandonment) on hold

## Schedule – Packages 1-4

- Survey and geotechnical field work Completed
- Survey office work due 06/30
- Design to be completed 09/08
- Project bid September 2023
- Construction begins November 2023

## **Preliminary Cost Estimates**

BOND PACKAGE	CIP PROJECTS	TOTAL LENGTH	PLANNING LEVEL COST ESTIMATE
1	I, K, L, R, S	1,350	\$450,000
2	A-E	5,050	\$1,750,000
3	G, H, J, M, N, P	1,900	\$500,000
4	F, Q, T	2,550	\$950,000
TOTAL			\$3,650,000

#### NOTES:

-Detailed cost estimates to be developed once design is completed -Estimate assumes repaving limited to trench only -Approved design contract = \$423,778.67

## **Cost Estimates – Bid Options**

Projects can be bid with alternative for paving width
Trench repair, one lane, or full street width

City can review bids and select best value

## **Community Outreach**

Project landing page active on City website

Pre-construction notifications

Door hangers for specific streets



# Questions?

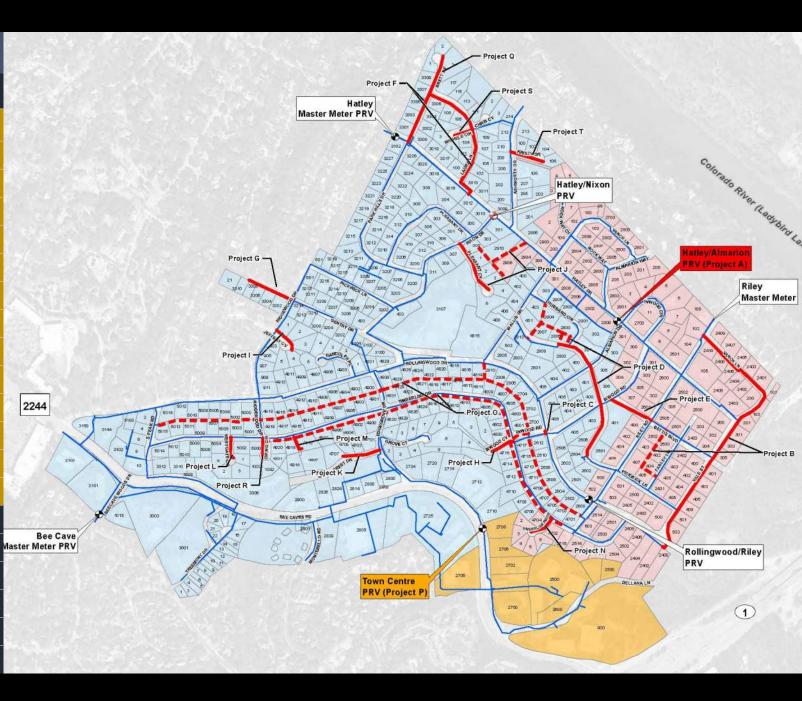
Water CIP Bond Program Update



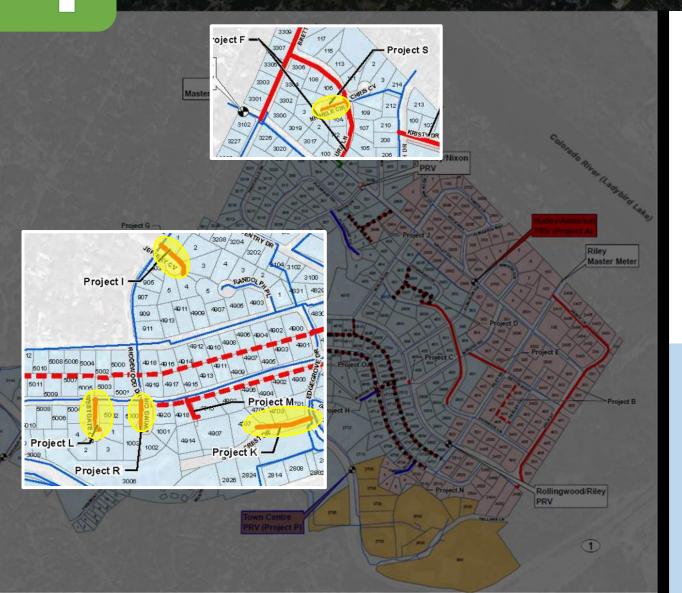


#### WATER CIP PROJECTS

ID	Proposed Projects	Priority
А	Hatley/Almarion PRV Replacement	High
В	Vance & Vale St Water Improvements	High
С	Inwood Rd Interconnect	High
D	Pickwick Dr Fire Flow Improvements	High
Ε	Bettis Blvd Fire Improvements	High
F	Park Hills Dr/Laura Ln Fire Improvements	High
G	Gentry Dr Fire Improvements	High
Н	Inwood Cove Fire Improvements	High
I	Jeffrey Cove Fire Improvements	High
J	Pleasant Cove Fire Improvements	High
K	S. Crest Dr Fire Improvements	High
L	Westgate Circle Fire Improvements	High
Μ	Ewing Easement Main Fire Improvements	High
Ν	Timberline Ridge Fire Improvements	High
0	Abandonment Projects	Low
Р	Town Centre PRV	Low
Q	Brett Cove Fire Improvements	Low
R	Ewing Circle Fire Improvements	Low
S	Michele Circle Fire Improvements	Low
Т	Kristy Dr Fire Improvements	Low



# Proposed Bond Packages PACKAGE 1: Project I | Project K | Project L | Project R | Project S



### Package 1 includes:

- 3 high-priority and 2 low-priority projects
- Fire flow improvements

SCOPE: 1,350 LF of 8-inch diameter water mains

#### Est. construction cost: \$450,000

- Design completed in 2016
- Minimal effort required to finalize plans

# Proposed Bond Packages PACKAGE 2: Project A | Project B | Project C | Project D | Project E



### Package 2 includes:

- **5** high-priority projects
- Increase system pressures
- Fire flow improvements

### **SCOPE:** 5,550 LF of 8-inch diameter water mains

• Repair or replacement Hatley/Almarion PRV

#### Est. construction cost: \$1,750,000

- Replace water mains with repeated breaks
- Generally located in northeast area of city

# Proposed Bond Packages PACKAGE 3: Project G | Project H | Project J | Project M | Project N | Project P



### Package 3 includes:

- 5 high-priority and 1 low-priority projects
- Fire flow improvements
- Reduce high pressures

#### SCOPE: 1,900 LF of 8-inch diameter water mains

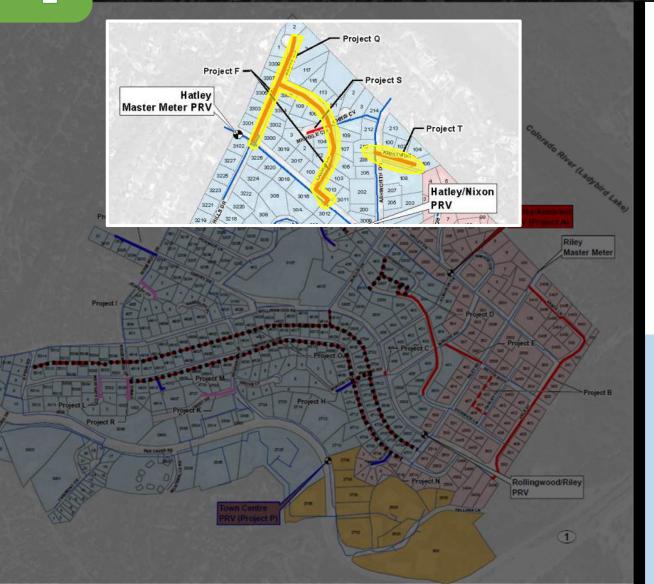
• One new PRV to serve Town Centre

#### Est. construction cost: \$500,000

- Not geographically grouped
- Grouped for cost efficiency

## Proposed Bond Packages

### **PACKAGE 4:** Project F | Project Q | Project T



## Package 4 includes:

- 1 high-priority and 2 low-priority projects
- Fire flow improvements

**SCOPE:** 2,550 LF of 8-inch diameter water mains

#### Est. construction cost: \$950,000

- Located in northwest corner of city
- Grouped geographically

## Proposed Bond Packages

### **PACKAGE 5:** Project O



### Package 5 includes:

- **1** low-priority project
- Backyard waterline abandonment
- Private service relocations

#### **SCOPE:** 12,850 LF of backyard waterline abandonment

• 48 private service relocations

#### Est. construction cost: \$800,000

- Includes abandonment from Projects D & J
- Requires extensive property owner coordination
- Longer design and construction schedule