



K•FRIESE
+ ASSOCIATES

PUBLIC PROJECT ENGINEERING

Water Capital Improvements Plan Bond Program Update

Greg Blackburn, PE | City Council Meeting 01.18.2023



Agenda



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WATER CIP BACKGROUND

BOND PACKAGES

STEPS FORWARD

PUBLIC UPDATES

RECOMMENDATIONS

QUESTIONS

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

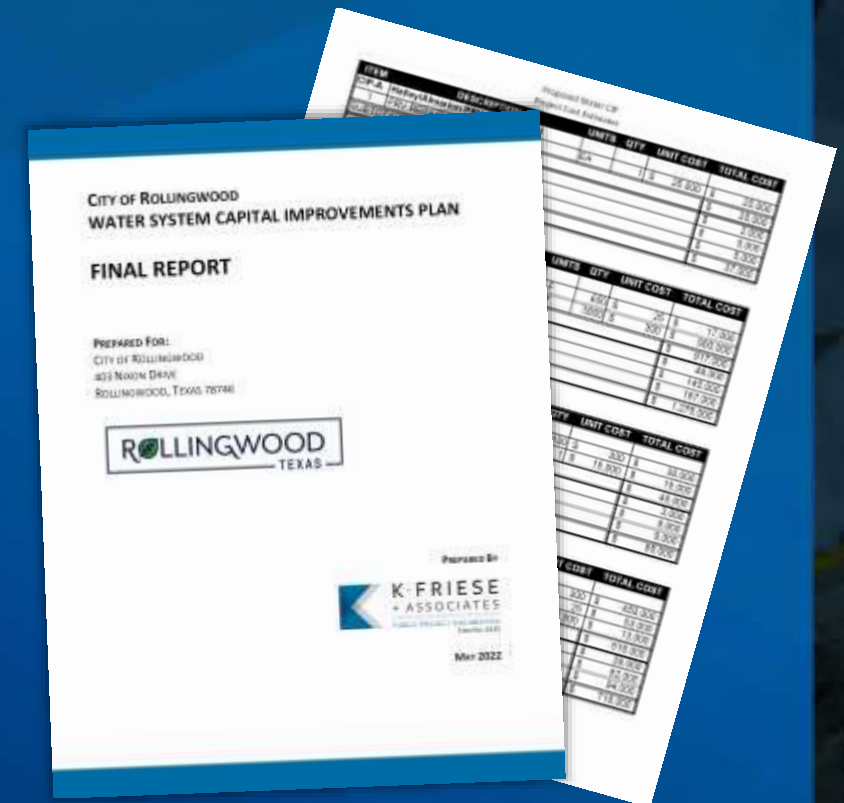
Water Capital Improvements Plan Background

Water CIP project in 2022 developed 20 projects for water system improvements

- System pressures
- Fire flow improvements
- Maintenance & operations

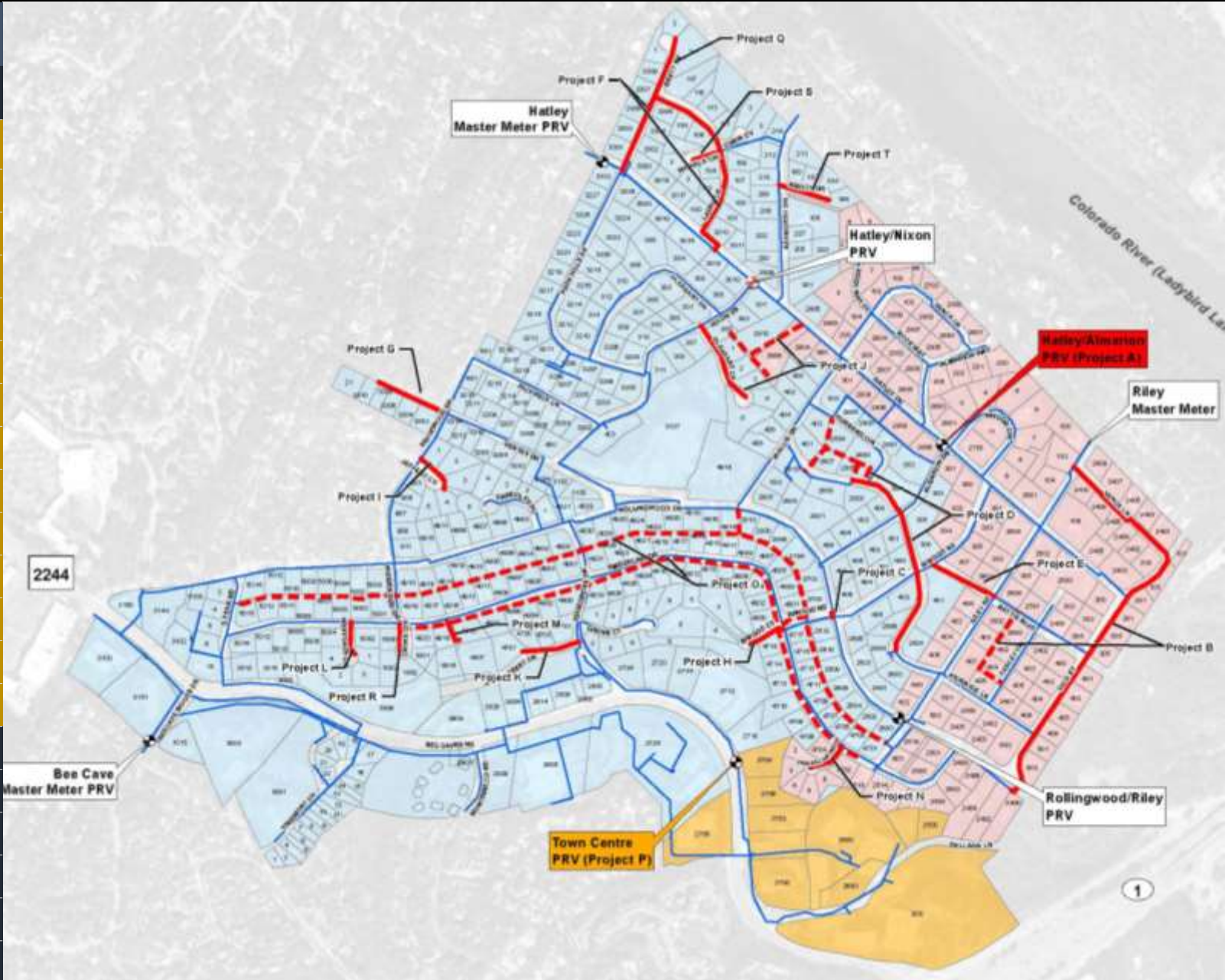
CIP Report approved by Council in May 2022

\$5.3 million bond was passed in November



WATER CIP PROJECTS

ID	Proposed Projects	Priority
A	Hatley/Almarion PRV Replacement	High
B	Vance & Vale St Water Improvements	High
C	Inwood Rd Interconnect	High
D	Pickwick Dr Fire Flow Improvements	High
E	Bettis Blvd Fire Improvements	High
F	Park Hills Dr/Laura Ln Fire Improvements	High
G	Gentry Dr Fire Improvements	High
H	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
M	Ewing Easement Main Fire Improvements	High
N	Timberline Ridge Fire Improvements	High
O	Abandonment Projects	Low
P	Town Centre PRV	Low
Q	Brett Cove Fire Improvements	Low
R	Ewing Circle Fire Improvements	Low
S	Michele Circle Fire Improvements	Low
T	Kristy Dr Fire Improvements	Low



Proposed Bond Packages

CIP projects proposed to be split into **five packages**

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Packages developed based on factors such as:

- Project priority
- Geographic location
- Estimated construction cost



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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

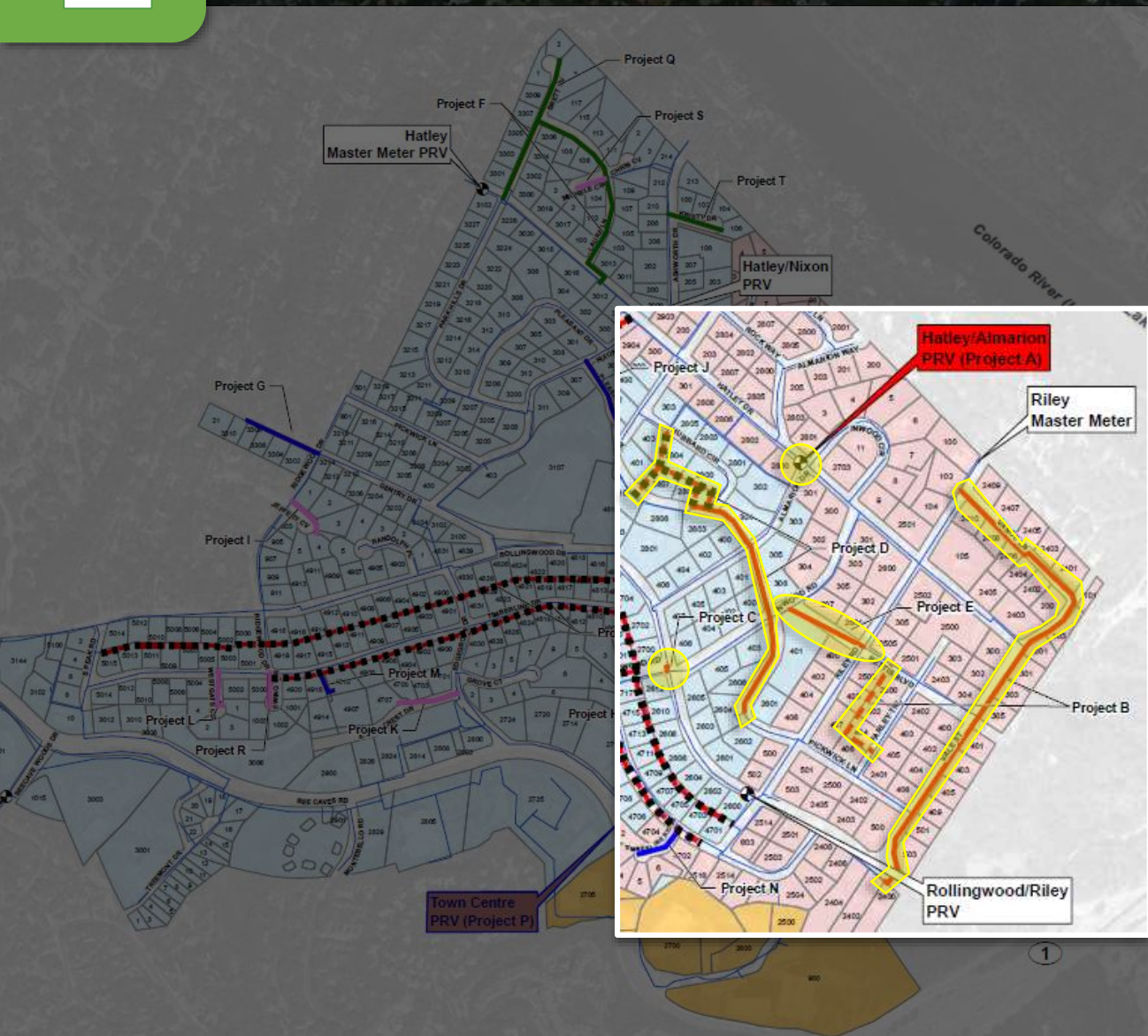
Est. construction cost: \$450,000

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

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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

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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

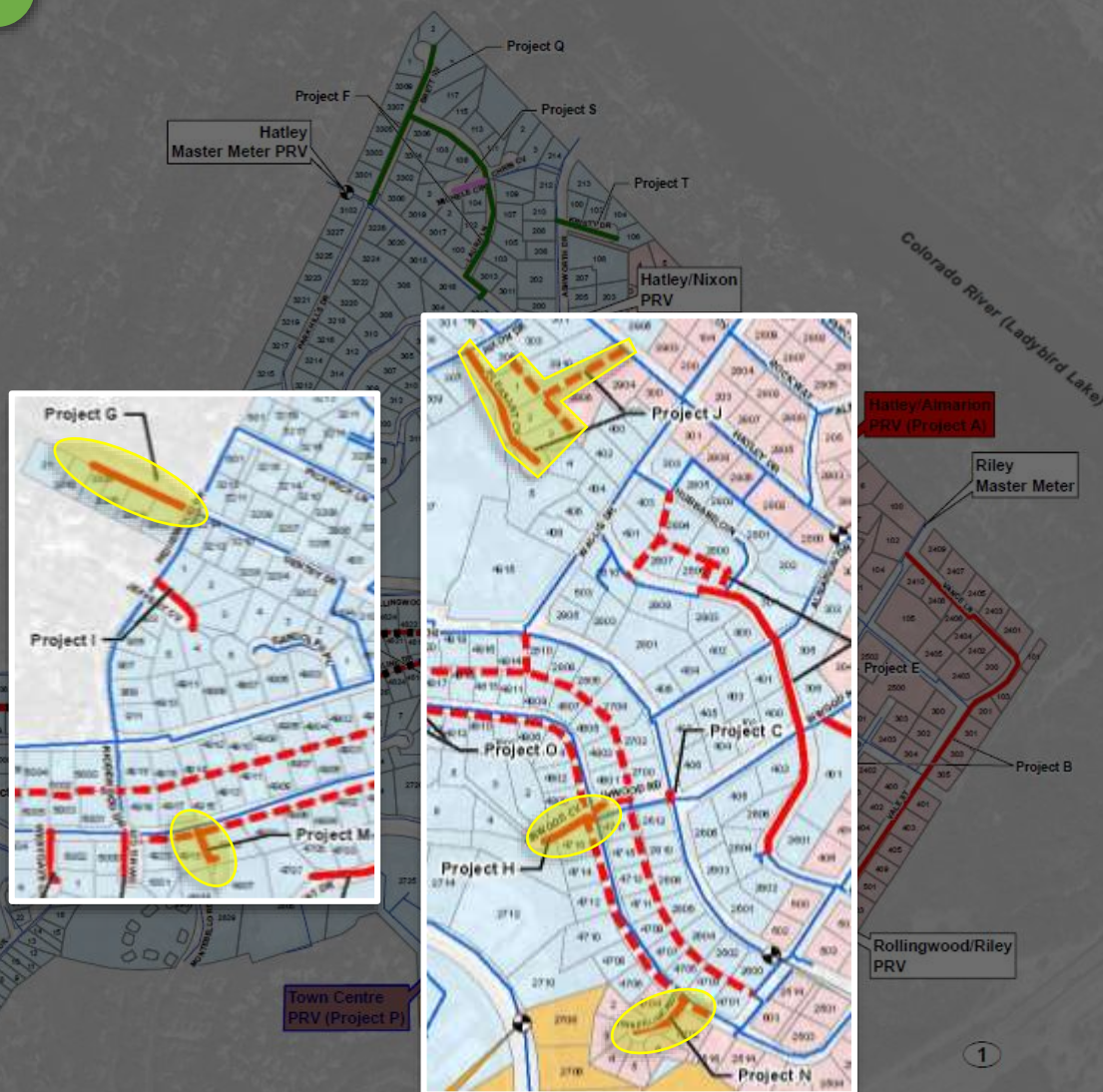
- Fire flow improvements
- Reduce high pressures

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



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Proposed Bond Packages

PACKAGE 4: Project F | Project Q | Project T



Package 4 includes:

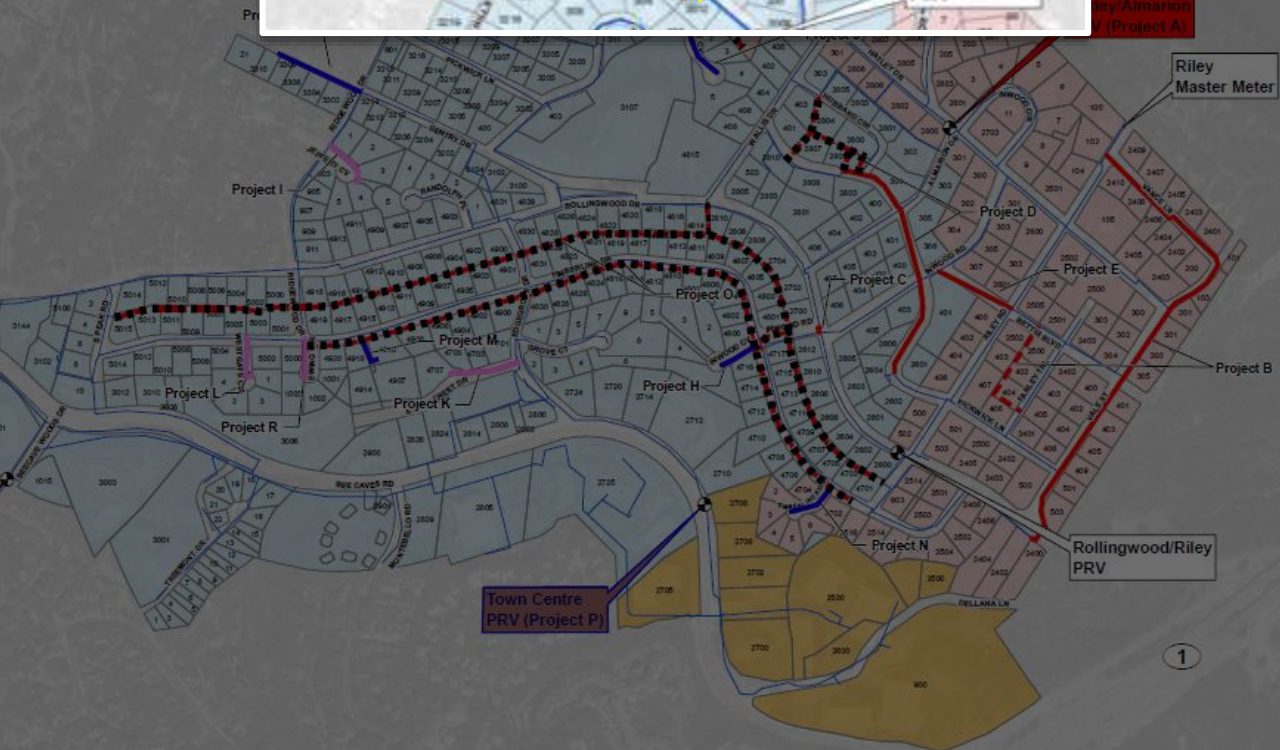
1 high-priority and 2 low-priority projects

- Fire flow improvements

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

Est. construction cost: \$950,000

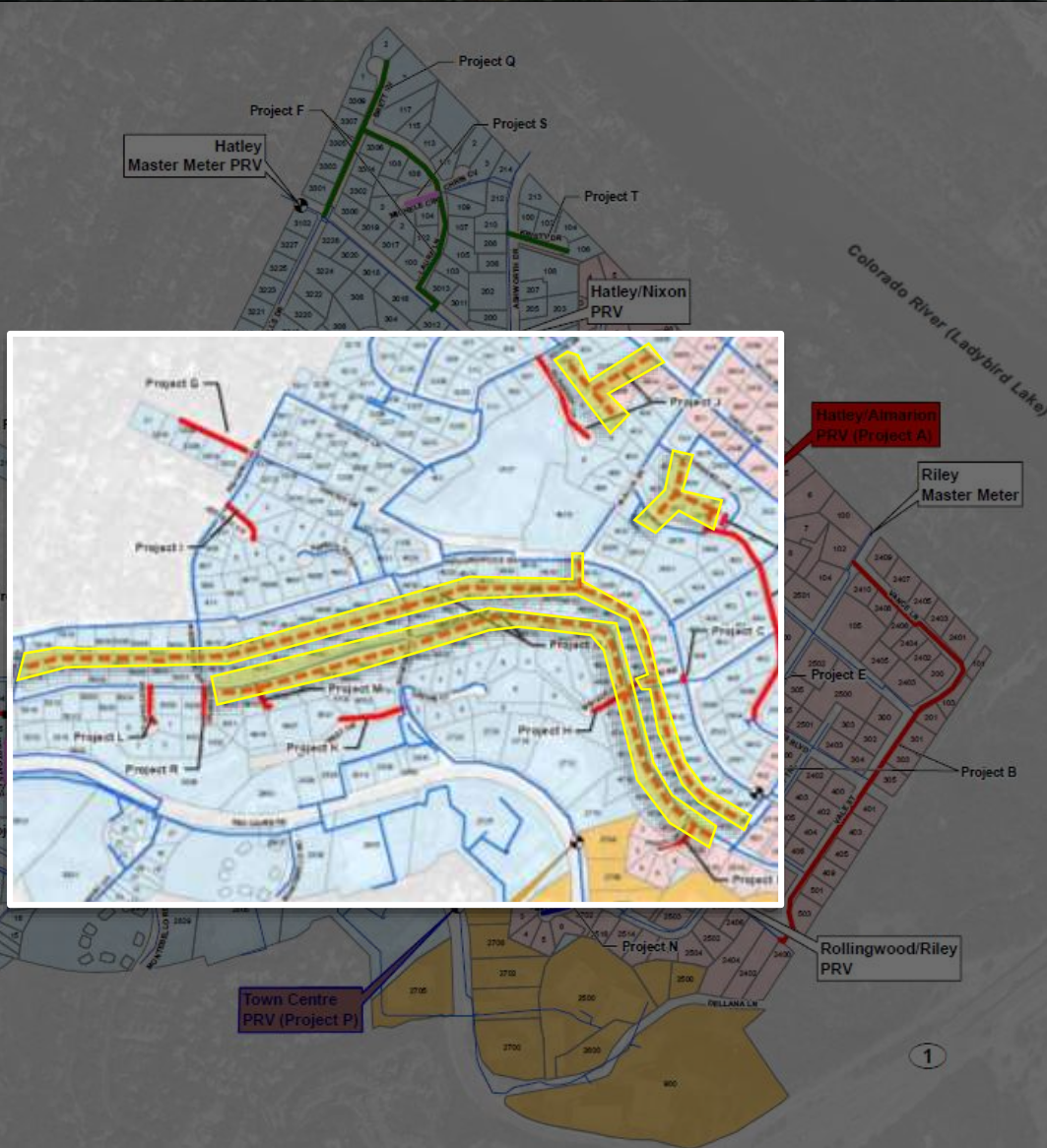
- Located in northwest corner of city
- Grouped geographically



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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

Steps Forward – Minimizing Cost

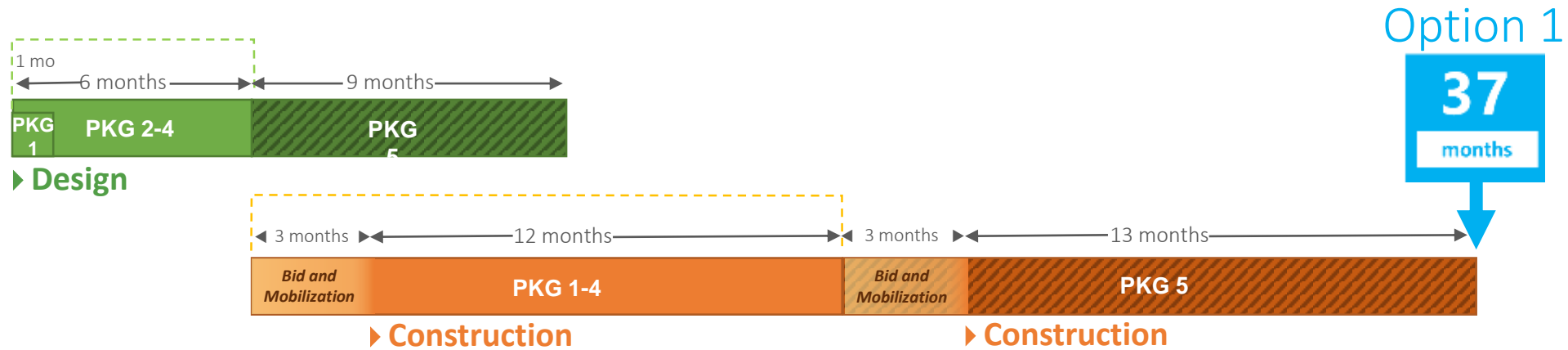
DESIGN

- Perform the field work and design for packages 1-4 at the same time
 - Best value for professional service fees
 - Provides flexibility for issuing projects for construction

CONSTRUCTION

- Bid packages 1-4 together (\$3.6 million estimated cost)
 - Pros:
 - Better contractors and prices
 - Faster overall schedule
 - Cons:
 - More construction activity

Steps Forward – Optimizing Schedule



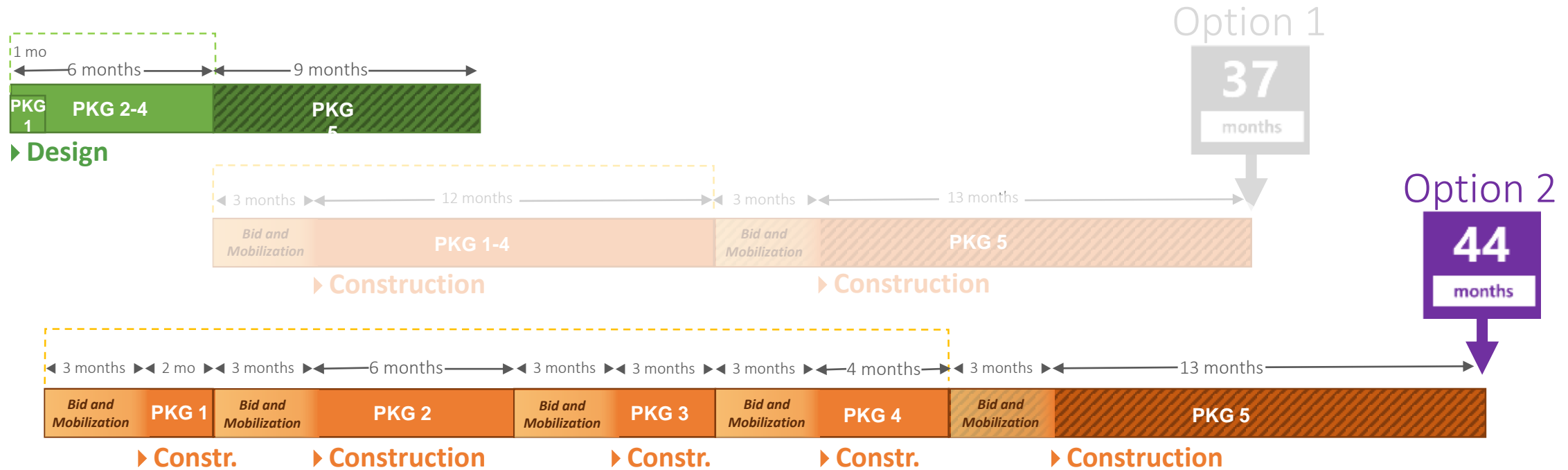
DESIGN

- Pkgs 1-4 completed within 6 months
- Pkg 5 to follow (9 months)

BID/CONSTRUCTION

- Pkgs 1-4 completed in 15 months
- Pkg 5 completed in 16 months

Steps Forward – Optimizing Schedule



DESIGN

- Pkgs 1-4 completed within 6 months
- Pkg 5 to follow (9 months)

BID/CONSTRUCTION

- Pkg 1 completed first
- Remaining Pkgs bid in order

Public Update Recommendations

- Develop Water CIP Bond Program landing page on City website
 - Project map
 - Project summaries
 - Schedule updates
- Meet the Contractor
- Construction notifications

Providing the community with a simple, accessible place to view the latest project updates will ensure community clarity.

CITY OF KYLE BOND PROJECT WEBSITE

Recommendations

- Recommend to complete field work and design for Packages 1-4 at the same time
- Recommend to bid Packages 1-4 as a single construction package
 - Better pricing
 - More construction activity



K. FRIESE
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Questions?

Water CIP Bond Program Update

