

CASTLE ROCK WATER

**A RESOLUTION APPROVING A SERVICE  
AGREEMENT WITH DEWBERRY FOR THE  
YOUNG AMERICAN INFRASTRUCTURE  
IMPROVEMENTS, BELL MOUNTAIN PIPELINE &  
METER VAULT UPGRADES**

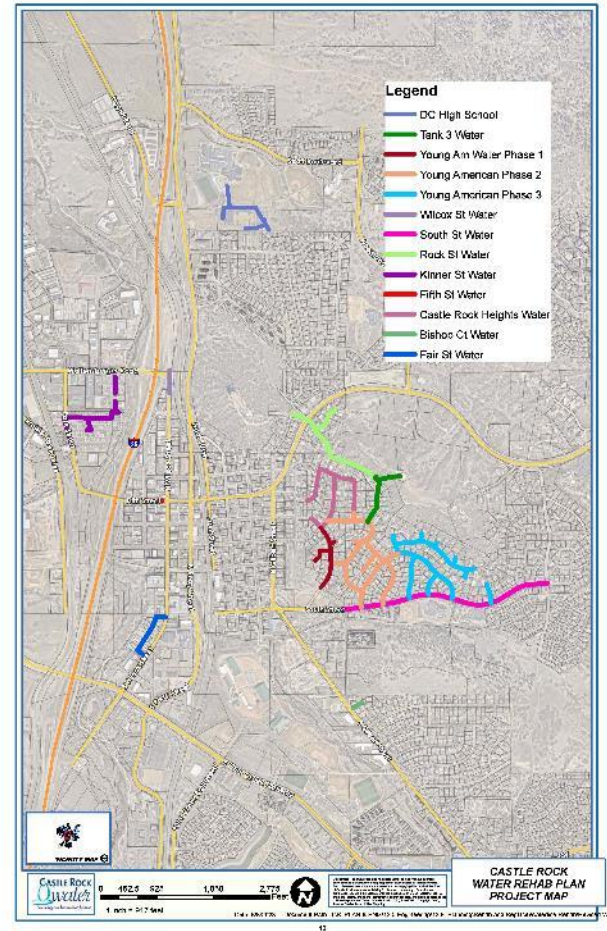
AUGUST 15, 2023



# YOUNG AMERICAN

## REHABILITATION PLANNING

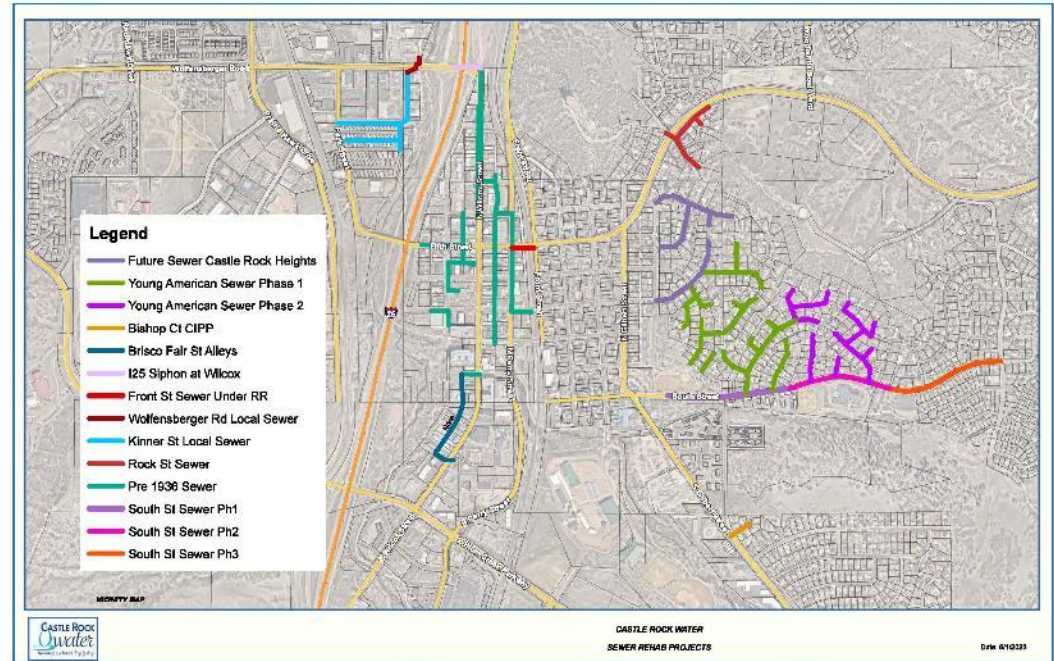
- Water Rehab Plan
  - Focused on pre-1976 Pipe
  - Expected Service Life of Water Pipes by Material
  - Likelihood of Failure
    - ✓ Age
    - ✓ Material
    - ✓ Size
  - Consequence of Failure
  - Capacity
- ~\$2 million annual budget in 5 year window (reduced to \$1 million in 2024-25)
- Need approximately \$14 million through 2032 for priority pipes



# YOUNG AMERICAN

## REHABILITATION PLANNING

- Wastewater Rehab Plan
  - Focus on pre-1976 Pipe
    - ✓ Condition
    - ✓ Material
    - ✓ Age
  - Consequence of Failure
  - Capacity
- ~\$2.4 million budget annually
- Need approximately \$16M through 2032 for priority pipes

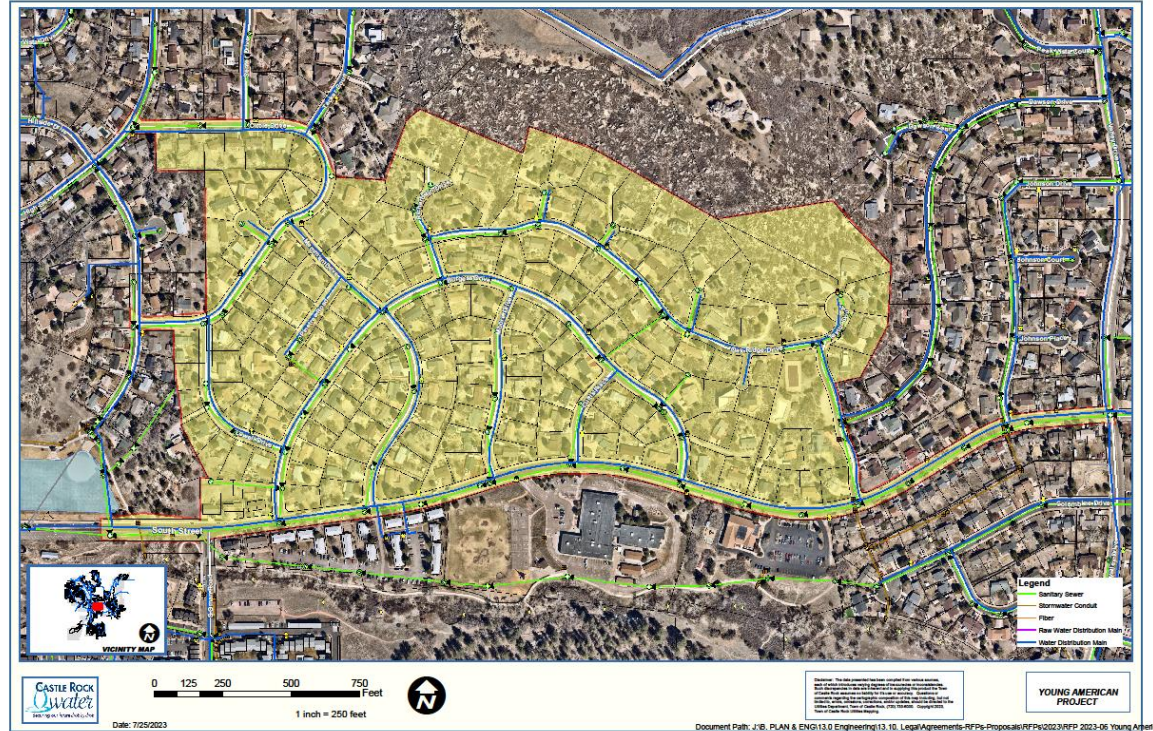




# YOUNG AMERICAN

## BACKGROUND

- Water and sewer installed in the mid 1970's
- Top 3 priorities for water and in top 15 priorities for sewer replacements
- There have been several breaks in recent years
- Large isolation areas for repairs
- Existing pipe is undersized 4" and 6" cast iron



# YOUNG AMERICAN

## SCOPE

- Design new 8" distribution system
- Evaluate existing sanitary collection system
- Design sanitary collection system improvements
- 10,700 linear feet of water and sewer to be replaced/rehabilitated
- Providing new water and sewer services to 175 homes



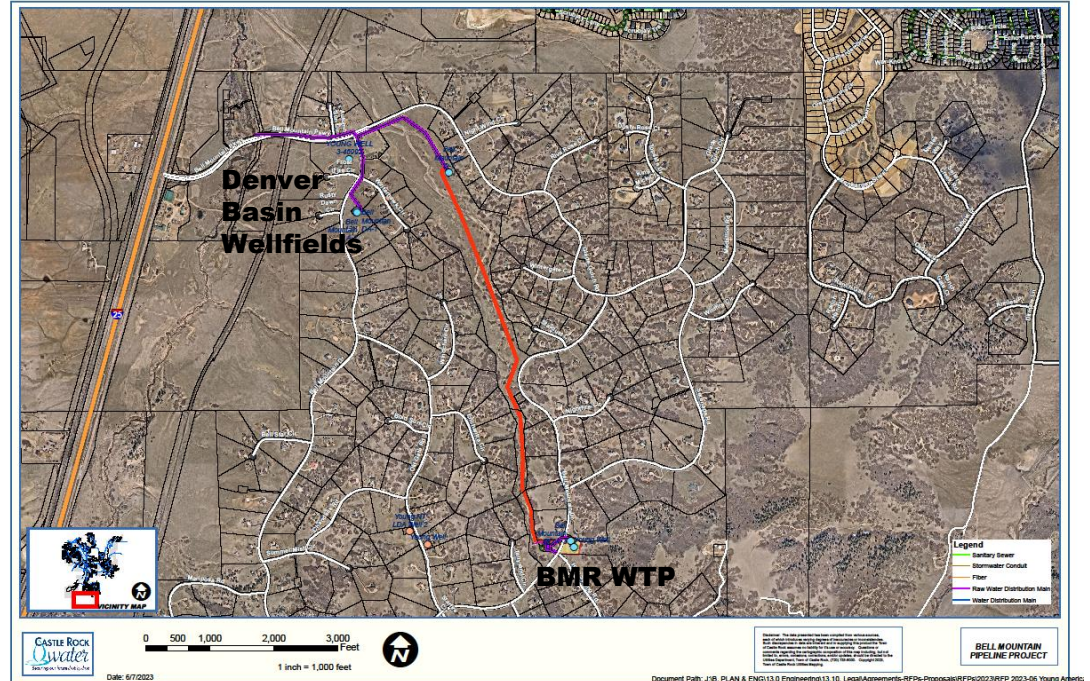
Burgess Street Water Line Break



# BELL MOUNTAIN RAW PIPELINE

## BACKGROUND AND SCOPE

- CR Water recently acquired the Bell Mountain water system
- Design of pipeline to connect the two Denver Basin wellfields
- Provides redundancy for Bell Mountain Water Treatment Plant (WTP)
- Supply line for planned Crystal Valley (CV) WTP



# BELL MOUNTAIN METER VAULT

## BACKGROUND AND SCOPE

- Existing vault was acquired with Bell Mountain
- Existing vault has one meter for two wells
- Existing vault does not meet Town standards
- Design of separate meter runs
- Upgrade electrical design and instrumentation to meet standards



# YOUNG AMERICAN AND BELL MOUNTAIN

## PROJECT SUMMARY

### Design Contract

- RFP sent to 5 consultants
- Dewberry submitted only proposal
- Total authorization \$654,973
- Budget transfer required for design costs

### Schedule

- Start – August 2023
- Complete – March 2024
- Construction summer of 2024, 2025, and 2026

### Recommendations

- Commission and Staff

Project	Account	Amount	Contingency	Total	2023 Budget
Water Rehab	210-4275-442-75-35	\$178,164.50	\$8,908.00	\$187,072.50	\$13,602
Sewer Rehab	213-4575-445-75-62	\$178,164.50	\$8,908.00	\$187,072.50	\$227,315
BMR Pipeline Connection	210-4275-442-75-39	\$132,527.50	\$6,627.00	\$139,154.50	\$17,716
Meter Vault Upgrades	210-4275-442-75-39	\$134,927.50	\$6,746.00	\$141,673.50	
Total		\$623,784	\$31,189	\$654,973	

Budget transfers will be made from:

- AMI - \$280,828.00
- VFD Replacement - \$125,000
- Facilities Capital Replacements - \$75,000



# YOUNG AMERICAN AND BELL MOUNTAIN

## MOTION OPTIONS

- 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).”*