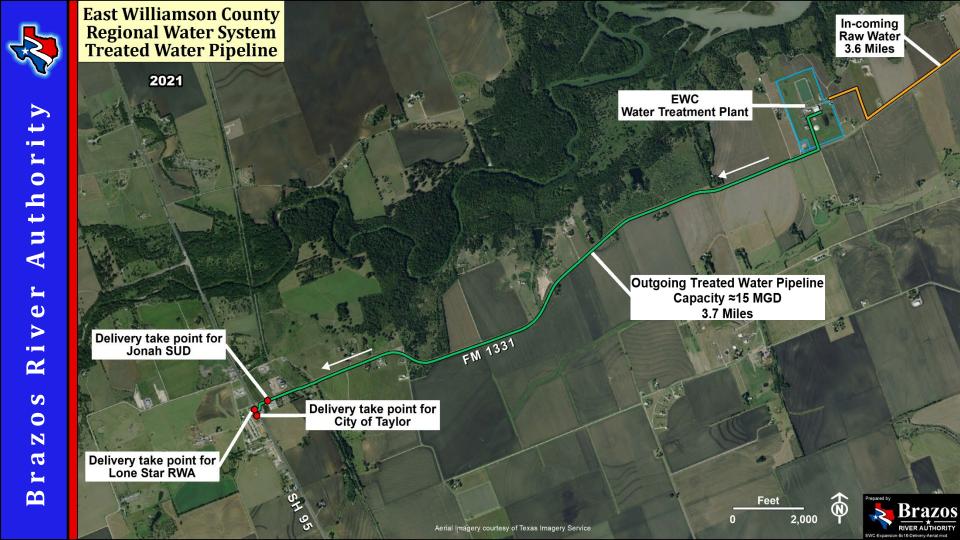


# East Williamson County Expansion Pipeline

Presented by
Brad Brunett
Central & Lower Basin Regional Manager





## Project Objectives

Expand EWCRWS to meet customer demands:



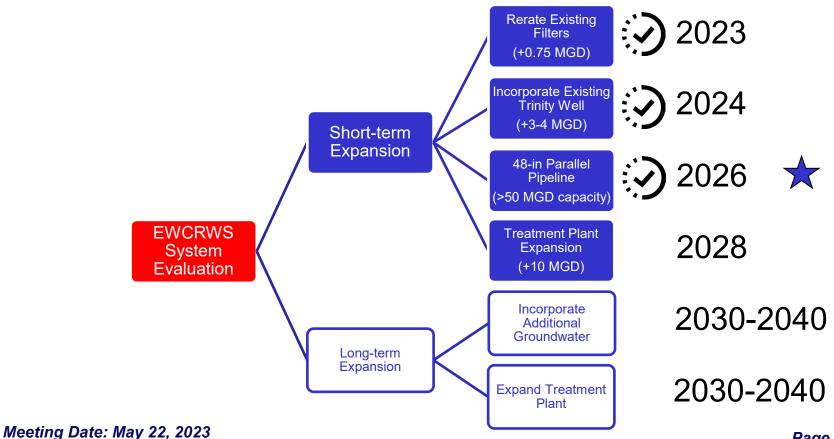
- Rerate Existing Filters
- Construct 48-in Pipeline
- Incorporate Groundwater
- 10 MGD Surface Water Plant Expansion

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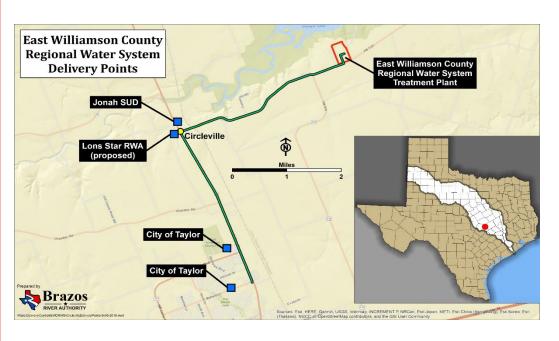
## Project Approach



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## **Pipeline**



#### Current 27-in Pipeline

- Max capacity is ≈ 15 MGD
- Built in 1990
- Possible single point of failure

#### Proposed 48-in Pipeline

- Max capacity is ≈ 35 MGD
- Critical path for short-term expansion
- Provide system resiliency/ redundancy
- Existing 27-in pipeline will become dedicated to the City of Taylor

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## Engineering Contract Tasks

- Data Acquisition and Review
  - GIS, CAD, and Record Drawing Files for Utilities
  - Available Easements, Deeds, and Property Records
- Detailed Design
  - 10% Conceptual Design
  - 30/60/95% Detailed Design Submittals
- Bid Phase Services
  - Assist with Pre- and Post- Bid Coordination
  - Conform Documents
  - Assist with Bid Evaluation
- Engineering Services During Construction
  - Submittal, RFI, and Change Order Review
  - Record Drawings
  - Substantial Completion Site Visit/Checklist



## Engineering Tasks Cont'd

- Other Services to Support Design/Construction
  - RPR Services
  - Transient Pipe Analysis
  - Corrosion Engineering Services
  - Surveying Topographic and Subsurface Utility Engineering
  - Environmental Site Assessment, Investigation, and Permitting
  - Geotechnical Borings and Baseline Report
  - Regulatory and Agency Coordination (TCEQ, TXDOT, and Union Pacific)
  - Easement Acquisition
  - Construction Materials Testing
  - Traffic Control Plan



### Cost and Schedule

Design/Bid Phase Schedule & Cost	Duration	Cost
Data Acquisition and Review	Month 1	\$20,538
Detailed Design	Month 1-18	\$813,645
Other Services Supporting Design	Month 1-21	\$1,576,515
Bid Phase Services	Month 18-21	\$58,630
Engineering Services During Construction	Month 21-33	\$307,624
Total	33 Months	\$2,776,952

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"BE IT RESOLVED that the Board of Directors of the Brazos River Authority hereby authorizes the General Manager/CEO to negotiate and execute a professional services contract with CDM Smith, Inc., for all activities associated with the permitting, engineering, design, property/rightof-way acquisition, and construction oversight services for the construction of a treated water pipeline between the East Williamson County Regional Water Plant and the customer delivery points at Circleville, Texas, in an amount not to exceed \$3,054,647."



