



NORTH
TEXAS
MUNICIPAL
WATER
DISTRICT

Regional. Reliable. Everyday.

Regional Service Through Unity:
Meeting Our Region's Needs Today
And Tomorrow



WASTEWATER COMMITTEE MEETING

FEBRUARY 26, 2025



Agenda

- I. CALL TO ORDER
- II. PUBLIC COMMENTS
- III. OPENING REMARKS
- IV. ACTION ITEMS
- V. DISCUSSION ITEMS
- VI. ADJOURNMENT

IV. ACTION ITEMS

- A. Consider approval of Wastewater Committee meeting minutes – January 22, 2025
- B. Interlocal Cooperation Agreement between the North Texas Municipal Water District, the City of Allen, regarding Cottonwood Creek Bank Stabilization project; Resolution 25-04
- C. Lower Rowlett Creek Lift Station Structural Repairs; Project No. 501-0658-25; Tabulation of Bids and Award of Contract
- D. Lower Rowlett Creek Lift Station Structural Repairs, Project No. 501-0658-25; Rowlett Creek Regional Wastewater Treatment Plant Administration Building, Project No. 301-0524-19; and Rowlett Creek Regional Wastewater Treatment Plant MBR Maintenance Improvements, Project No. 301-0622-23; Construction Management Services Agreement
- E. Upper White Rock Creek Lift Station – Pump 1 and 2 Replacement; Project No. 501-0659-25; Engineering Services Agreement; Preliminary and Final Engineering
- F. Beck Branch, Prairie Creek and Renner Road Lift Stations Improvements; Project No. 501-0616-22; Tabulation of Bids and Award of Contract, and Internal Inspection Services

V. DISCUSSION ITEMS

- A. Update on Rowlett Creek Regional Wastewater Treatment Plant Pretreatment Program
- B. Sister Grove Regional Water Resource Recovery Facility Program Update
- C. Opportunity for Committee members to provide feedback on Wastewater Committee meeting or request potential future agenda items



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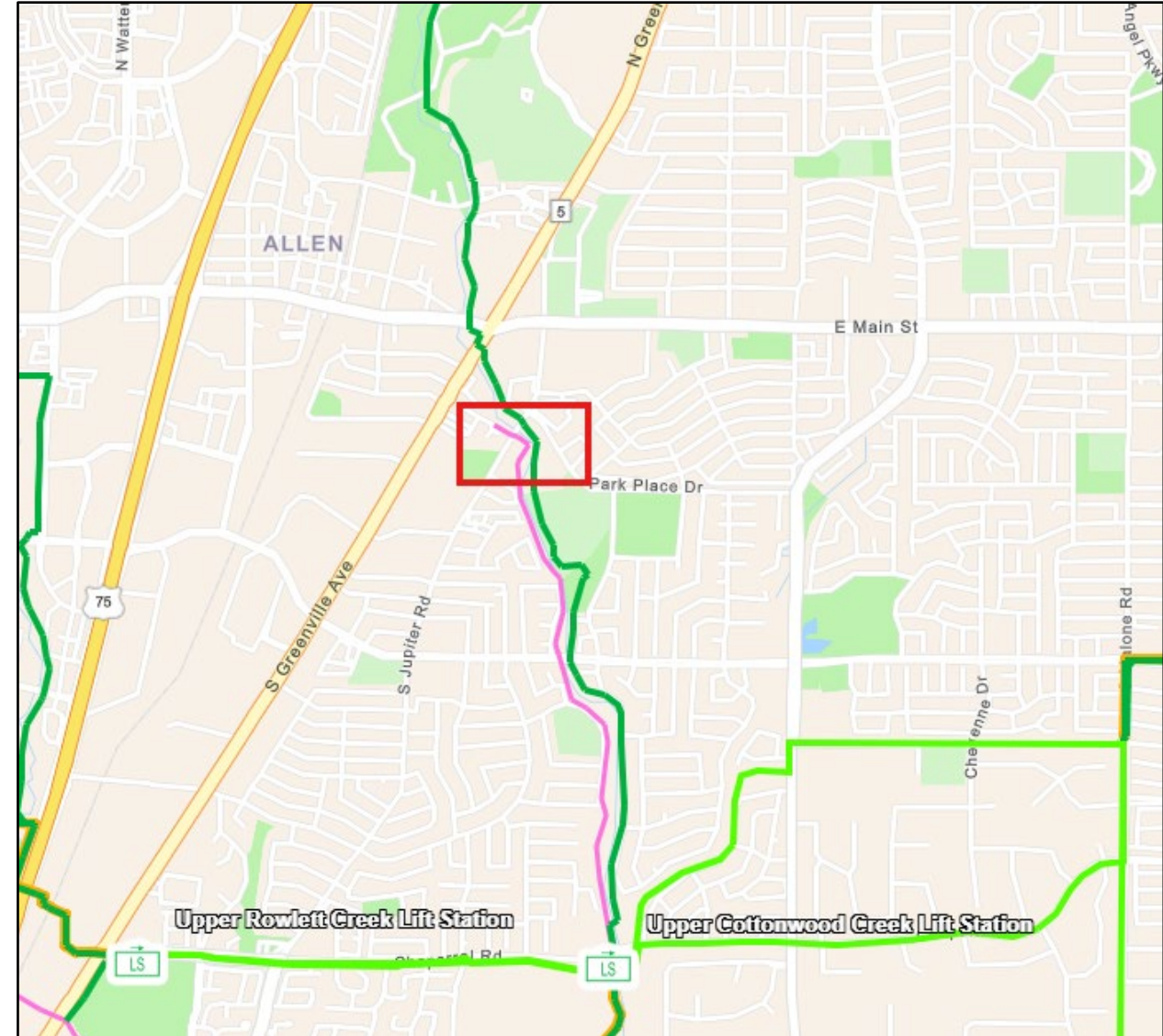
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Cottonwood Creek Bank Stabilization

- February 2024, the City of Allen notified NTMWD of stream bank erosion in the vicinity of the Cottonwood Creek Trunk Sewer Pipeline
- The erosion compromised the City's concrete trail that runs parallel to Cottonwood Creek prompting them to close the trail
- Exposure of the NTMWD Cottonwood Creek Trunk Sewer pipeline
- Field investigations identified the need for immediate temporary measures to protect the District's pipeline infrastructure





Cottonwood Creek Bank Stabilization

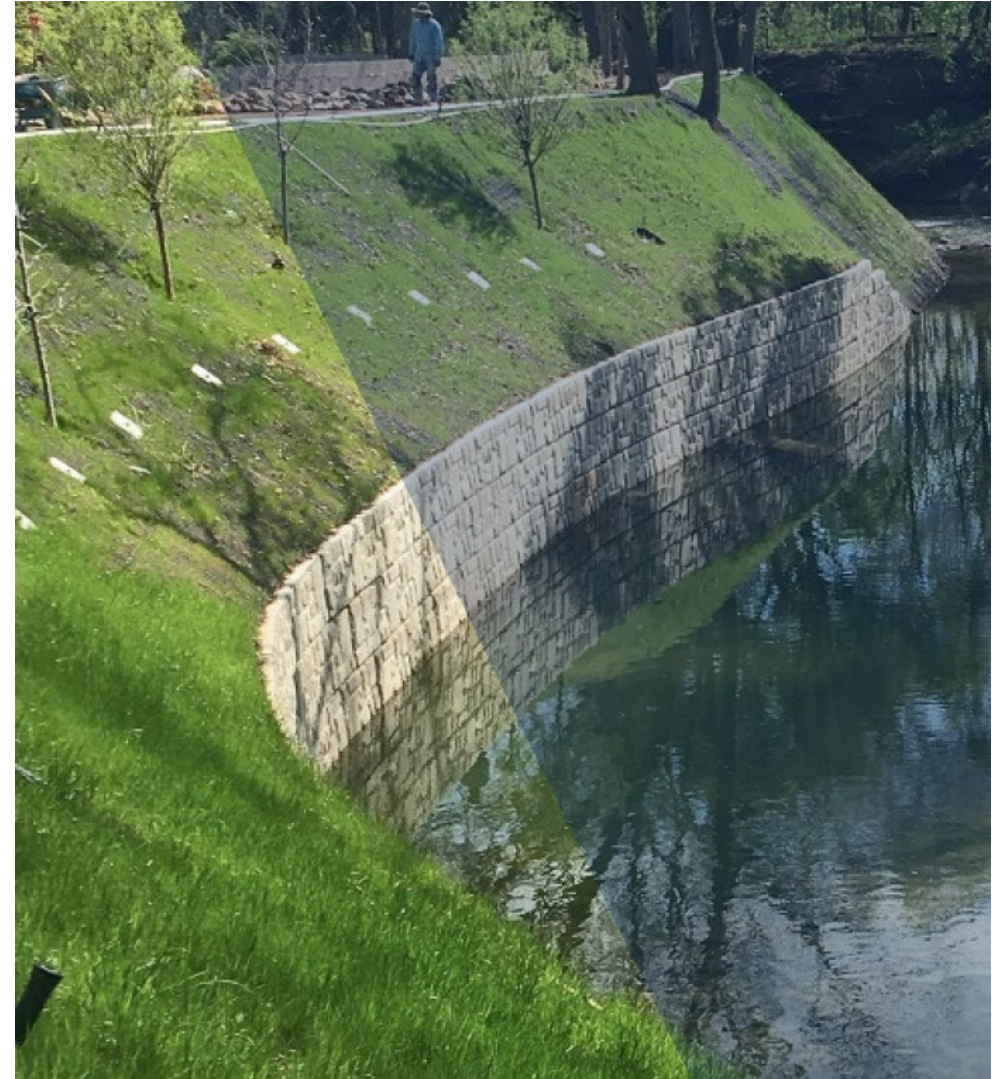
- NTMWD took action to install temporary stabilization measures to protect integrity of the pipeline





Cottonwood Creek Bank Stabilization

- NTMWD and the City of Allen have been collaborating on a more permanent solution
- Progress to date
 - City has solicited proposals from contractors
 - City and NTMWD have reviewed proposals and conducted interviews
 - Current proposal - Concrete Block Wall with Turf Reinforcement





Cottonwood Creek Bank Stabilization

- Interlocal Cooperation Agreement highlights:
 - NTMWD will participate in selection of the contractor and review of the design
 - City will manage the design and construction of the project
 - Total Project Cost of \$645,457
 - NTMWD's one-time contribution is \$387,275
 - All other costs will be paid by the City of Allen
- Next Steps
 - NTMWD Board approve Interlocal Cooperation Agreement (February 27th)
 - City approve Interlocal Cooperation Agreement (March 11th)
 - City award construction contract (March 11th)



Committee Consideration

The Executive Director, NTMWD staff and Saunders, Walsh & Beard, recommend the Board of Directors authorize the Executive Director to execute an Interlocal Cooperation Agreement between the North Texas Municipal Water District and the City of Allen, regarding the Cottonwood Creek Bank Stabilization and Trail Replacement Project; Resolution 25-04

Contracting Party: City of Allen

Scope: Execution of an Interlocal Cooperation Agreement for participation in a construction project for the Cottonwood Creek Bank Stabilization and Trail Replacement Project

Project: Cottonwood Creek Bank Stabilization and Trail Replacement Project

Amount: \$387,275 project funding for Cottonwood Creek Bank Restoration and Protection of NTMWD Wastewater Infrastructure

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Lower Rowlett Creek Lift Station Structural Repairs

Project Purpose

- Restore and enhance the structural integrity of the east and west lift station wetwells to ensure reliable transfer of flows to Wilson Creek RWWTP

Project Components

- Concrete repair on exposed reinforcement within both east and west wetwells
- Application of protective coating to reduce corrosion impact on concrete walls



Lower Rowlett Creek Lift Station Structural Repairs

Tabulation of Bids

Bidder	Total Bid	Recommendation
Urban Infraconstruction, LLC	\$3,115,167.00	Lowest responsible bid Recommended for Award
CLW Water Group, LLC	\$4,498,000.00	
Felix Construction Company	\$4,601,904.00	
BCAC Underground, LLC	\$4,838,445.00	
Engineer's OPCC	\$4,975,172.00	

Urban Infraconstruction, LLC

- Have worked as a subcontractor on three District projects
- Have worked on similar projects for three Texas municipalities



Committee Consideration

The Executive Director, NTMWD staff, and Freese and Nichols, Inc. recommend the Board of Directors authorize the award of contract as follows:

Contractor: Urban Infraconstruction, LLC

Scope: Construction Contract

Project: No. 501-0658-25, Lower Rowlett Creek Lift Station Structural Repairs

Amount: \$3,115,167

Funding: Upper East Fork Interceptor System Extendable Commercial Paper Program

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Rowlett Creek RWWTP Construction Management

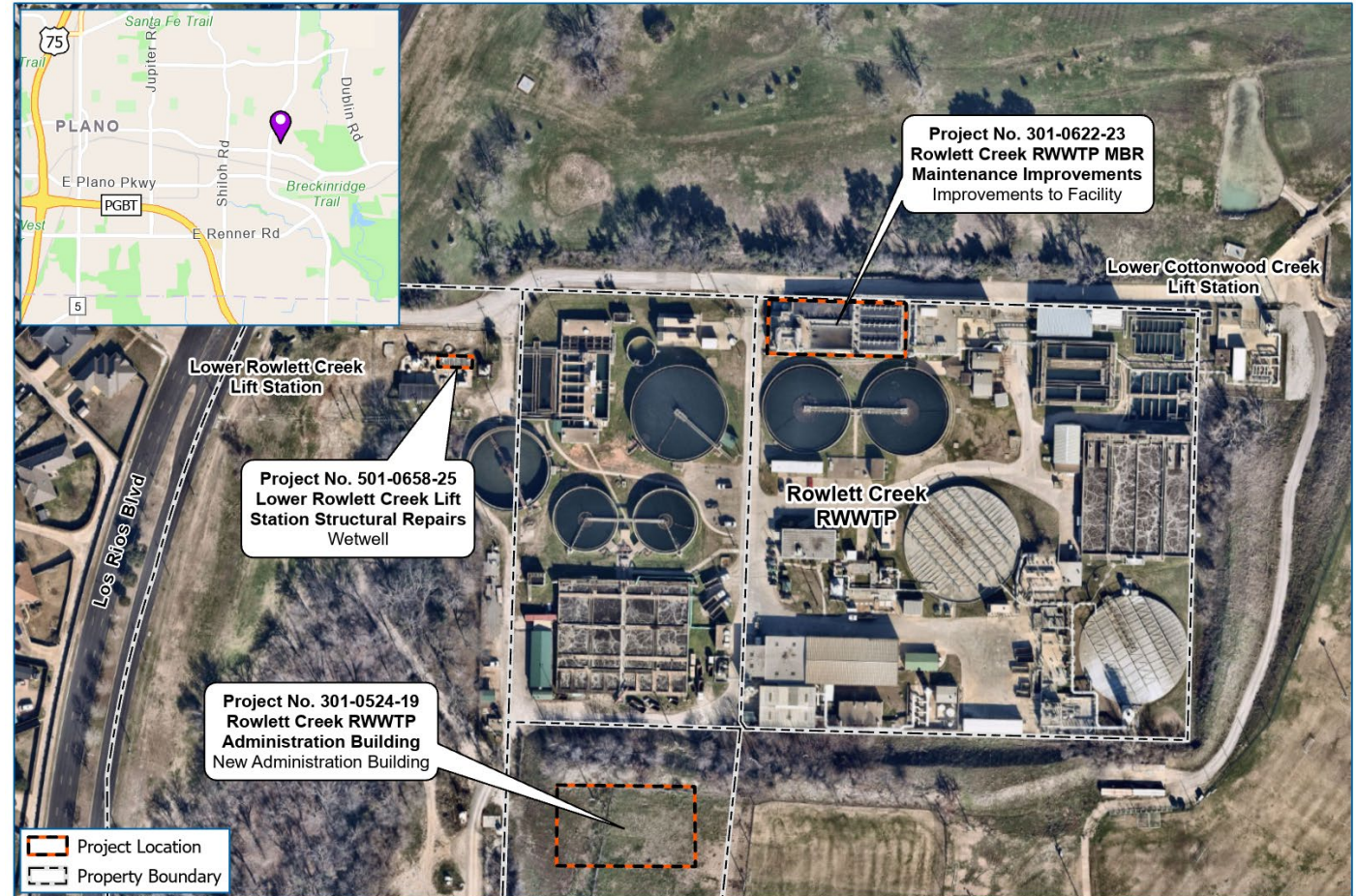
Background & Project Purpose

- Multiple construction contracts are planned to be awarded at the Rowlett Creek Regional Wastewater Treatment Plant (RWWTP) over the next few years
- A Construction Manager is needed to administer and oversee all the planned construction activities
 - Lower Rowlett Creek Lift Station Structural Repairs
 - Rowlett Creek RWWTP Administration Building
 - Rowlett Creek RWWTP MBR Maintenance Improvements
 - Rowlett Creek RWWTP Peak Flow Management Improvements, Phase II (future request)

Rowlett Creek RWWTP Construction Management

CM Services Scope

- Initial 12 months requested
- Provide day-to-day oversight of contractors
- Maintain documentation and report issues and status of work
- Provide inspection to cover all tasks and disciplines
- Provide construction material testing
- Review and process pay applications, claims, and proposed change orders





Committee Consideration

The Executive Director and NTMWD staff recommend the Board of Directors authorize the award of contract as follows:

Consultant: Freese and Nichols, Inc.

Scope: Construction Management Services

Project: No. 501-0658-25, Lower Rowlett Creek Lift Station Structural Repairs
No. 301-0524-19, Rowlett Creek RWWTP Administration Building
No. 301-0622-23, Rowlett Creek RWWTP MBR Maintenance Improvements

Amount: \$814,026

Funding: Upper East Fork Interceptor System Extendable Commercial Paper Program
Regional Wastewater System Extendable Commercial Paper Program

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Upper White Rock Lift Station – Pump 1 and 2 Replacement

Background & Project Purpose

- Upper White Rock Lift Station was constructed in 1995 and upgraded in 2016
- Receives flow from northwestern Plano and pumps to Preston Road Lift Station
- The 2023 lift station condition assessment report recommends improvements at the lift station to replace badly deteriorated components and repair moderate leakage in the dry well of the lift station to ensure reliability of the facility
- Planning Level Estimated Construction Cost is \$6,638,000



Upper White Rock Lift Station – Pump 1 and 2 Replacement

Project Components

- Replace:
 - Pumps 1 and 2
 - Associated piping and valves
 - Concrete lift out panel
 - Electrical equipment
- Repair concrete leak and crack in dry well
- Evaluate additional supervisory control and data acquisition (SCADA) system alarms, pump 3 piping and valves, and permanent bypass connection





Upper White Rock Lift Station – Pump 1 and 2 Replacement

Preliminary and Final Engineering

- Basic Services - \$771,137
 - Project management, data collection, and coordination
 - Preliminary and final design phase services
 - Bid phase services
- Special Services - \$36,500
 - Asbestos survey
 - Topographical survey
 - Electrical coordination study
- Total Requested Amount - \$807,637



Committee Consideration

The Executive Director and NTMWD staff recommend the Board of Directors authorize the Executive Director to execute an engineering services agreement as follows:

Consultant: Mead & Hunt, Inc.

Scope: Preliminary and Final Engineering

Project: Project No. 501-0659-25; Upper White Rock Creek Lift Station - Pump 1 and 2 Replacement

Amount: \$ 807,637

Funding: Upper East Fork Interceptor System Construction Fund

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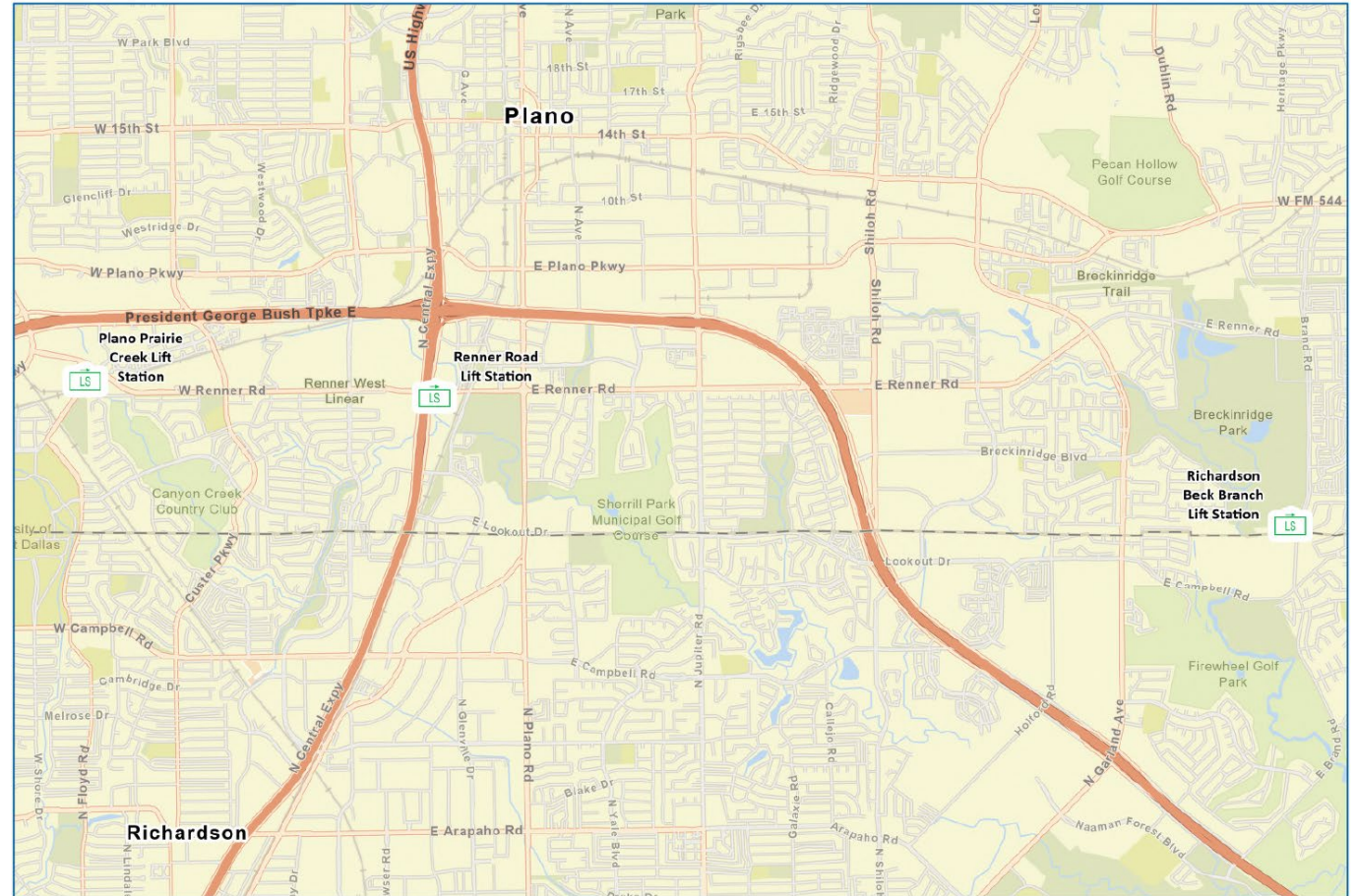
Beck Branch, Prairie Creek and Renner Road Lift Stations Improvements

Project Purpose

- Replace and rehabilitate aging and/or deteriorated equipment at the existing lift stations to improve reliability and ease of maintenance

Project Components

- Replace two pumps, valves, and piping at Beck Branch
- Permanent bypass connections at Beck Branch and Renner Road
- Odor control improvements at Prairie Creek
- Replace and upsize existing generator tank at Renner Road
- HVAC/Electrical improvements, and replacement of flow metering devices at all three lift stations





Beck Branch, Prairie Creek and Renner Road Lift Stations Improvements

Tabulation of Bids

Bidder	Total Bid	Recommendation
Urban Infraconstruction, LLC	\$9,835,000.00	Lowest responsible bid Recommended for Award
CLW Water Group	\$11,138,900.00	
Archer Western Construction	\$11,794,000.00	
Engineer's OPCC	\$7,619,200.00	

Internal Inspection Services

- Internal inspection services to cover all tasks
- \$746,400.00



Committee Consideration

The Executive Director, NTMWD staff, and Wade Trim, Inc. recommend the Board of Directors authorize the award of contract as follows:

Contractor: Urban Infraconstruction, LLC

Scope: Construction Contract, and Internal Inspection Services

Project: No. 501-0616-22, Beck Branch, Prairie Creek and Renner Road Lift Station Improvements

Amount: Construction Contract: \$9,835,000
Inspection Services (Internal): \$ 746,400

Funding: Upper East Fork Interceptor System Extendable Commercial Paper Program

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- B. Sister Grove Regional Water Resource Recovery Facility Program Update
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- ① SISTER
GROVE RWRRF (CMAR - Garney)
Estimate Amount - \$286.4M
Authorized Amount - \$295.7M
Spent Amount - \$232.1M
- ② SGRWRRF OUTFALL PIPELINE
(CMAR - Garney)
Estimate Amount. - \$69.0M
Authorized Amount - \$76.1M
Spent Amount - \$64.8M
- CKINNEY TRANSFER LIFT STATION
(Crescent McKee JV)
Estimate Amount
- \$50.8M
Authorized Amount - \$51.2M
Spent Amount - \$48.3M
- CKINNEY TRANSFER FORCE MAIN
(Crescent McKee JV)
Estimate Amount
- \$35.0M
Authorized Amount - \$35.1M
Spent Amount - \$33.1M



Sister Grove RWRRF Program Update

CONSTRUCTION PROGRESS **Dewatering Building and Solids Handling**





Sister Grove RWRRF Program Update

CONSTRUCTION PROGRESS **Main Electrical Building**



Sister Grove RWRRF Program Update

CONSTRUCTION PROGRESS **Headworks Structure**



Sister Grove RWRRF Program Update

CONSTRUCTION PROGRESS **Primary Clarifiers**





Sister Grove RWRRF Program Update

CONSTRUCTION PROGRESS **Aeration Basin**





Sister Grove RWRRF Program Update

CONSTRUCTION PROGRESS Secondary Clarifiers, Sludge PS, and Splitter Box





Sister Grove RWRRF Program Update

CONSTRUCTION PROGRESS **Peak Flow Basins**





Sister Grove RWRRF Program Update

CONSTRUCTION PROGRESS Tertiary Filter Facility



Sister Grove RWRRF Program Update

CONSTRUCTION PROGRESS **Operations Building**





Sister Grove RWRRF Program Update

Progress Updates:

- Permanent Power was available at the site in October 2024
- The plant was energized on January 28, 2025
- Current projected date for Process Startup is August 2025

Separated Work Packages from CMAR's Scope:

- Construction of Main Electrical Yard - complete
- Plant Fiber Optic Installation – complete
- FM 2933 Improvements at Plant Entrance – advertise February 2025

Risk Management:

- Holding monthly Risk Register Update Meetings
- Identified approximately 48 risks and resolved or mitigated 35 items to date
- Focusing on potential startup risks

Sister Grove RWRRF Program Update

Expediting Construction Activities:

- Identified critical elements of subcontractor work and **moved to CMAR self-perform.**
 - Earthwork, structural slabs, masonry, fiberglass duct, insulation
- Analyzed electrical activities and optimized sequence to shorten durations and accelerate associated work.
 - Reduced the overall schedule duration by 54 days
- Extended work hours and additional weekend work activities.
 - Saturdays/Sundays worked in 2023: 42
 - Saturdays/Sundays worked in 2024: 45
- CMAR assigned interim milestones to subcontractors and is **supplementing subcontractor workforces as needed**

Sister Grove RWRRF Program Update

Startup and Contingency Activities:

- Identified initial Startup and Testing activities that can occur concurrently and independently to compress schedule.
 - Reduced the overall startup schedule by approximately 30 days
- Analyzed “Acceptance Testing” requirements and suggested revisions
 - 20 to 25 testing activities were identified and re-sequenced in coordination with project stakeholders to improve schedule
- **Analyzing options for plant startup without the use of Peak Flow Basins**
- Analyzing options to startup specific areas of the plant in Manual Mode as a contingency plan
- Analyzing options to startup and temporarily operate only half of the plant (single train) as a **contingency plan (treating 6-8 MGD) - Reduce startup time**



Sister Grove RWRRF Program Update

Program Financials:

- Professional services during construction will need to continue through project completion, therefore increases in the following were recently approved:
 - Program Management
 - Inspection (internal and external)
 - Engineering services during construction
- Current GMP for the project is \$474,732,865
- Our current expenditure through December 2024 is \$388,395,935
- Retainage is \$15.5M
- Remaining CMAR Contingency is \$1.8M
- Allowance in GMP not expected to be utilized is \$500K

Sister Grove RWRRF Program Update

Completion Plan:

Remaining Construction

(February to May 2025)

- Concrete Complete
- Install Clarifier Covers
- Complete Mech. Work
- Complete Piping Installation
- Install UV Equipment

Electrical & Instrumentation

(March to July 2025)

- Complete testing at:
 - *Main Elec Building
 - *Headworks
 - *Dewatering Facility
 - *Clarifiers, etc.
- Complete I & C

Equipment Testing

(April to August 2025)

- Complete Equipment Testing
- Prepare for Startup
- Receive Flows from NMTLS

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