



City of Denton

City Hall
215 E. McKinney Street
Denton, Texas
www.cityofdenton.com

AGENDA INFORMATION SHEET

DEPARTMENT: Procurement

ACM: Christine Taylor

DATE: November 18, 2025

SUBJECT

Consider adoption of an ordinance of the City of Denton, a Texas home-rule municipal corporation, authorizing the approval of a first amendment to a Professional Services Agreement between the City of Denton and Freese and Nichols, Inc., amending the contract approved by City Council on October 22, 2024, in the not-to-exceed amount of \$21,000,000.00; said first amendment to extend the required pilot study for the Ray Roberts Water Treatment Plant Expansion Project for the Water Utilities Department; providing for the expenditure of funds therefor; and providing an effective date (RFQ 7574-029 – providing for an additional first amendment expenditure amount not-to-exceed \$184,000.00, with the total contract amount not-to-exceed \$21,184,000.00). The Public Utilities Board will consider this item on Monday, November 17, 2025.

STRATEGIC ALIGNMENT

This action supports Key Focus Area: Enhance Infrastructure and Mobility.

INFORMATION/BACKGROUND

The Ray Roberts Water Treatment Plant (RRWTP), established in 2002, currently processes 20 million gallons of water per day (MGD) using conventional treatment methods. However, Denton's growing residential, commercial, and industrial sectors continue to drive up the demand for treated water. To meet this increasing demand, the RRWTP is being expanded. In October 2024, the City Council approved a contract with Freese and Nichols to provide regulatory permitting, process evaluation, and design services for the project.

This expansion will introduce an advanced treatment facility utilizing a parallel ultra-filtration membrane process. The initial capacity of this new membrane process train will be 20 MGD, with space reserved in the membrane filter building for future modular expansion of up to an additional 30 MGD. Once the entire expansion project is complete, the combined treatment capacity of both the conventional and membrane facilities will be in the range of 45 to 50 MGD.

The RRWTP expansion will include:

- Treatment train that will utilize low-pressure membrane units
- New parallel raw water pipeline
- New pre-ozone contactor
- New pump diffusion vault and flow separator

- New flocculation/sedimentation basins
- New membrane feed pump station
- New intermediate ozone contactor
- New biologically active filters
- New transfer pump station
- Construction of an additional clearwell

Before the final design phase, Freese and Nichols is required to perform a pilot study for the low-pressure membrane filters to comply with the Texas Commission on Environmental Quality (TCEQ) requirements for innovative treatment technologies. Both inclined plate settlers and membrane treatment are proven and established water treatment technologies; however, the TCEQ requires a pilot study to demonstrate the efficacy of the advanced treatment on the actual raw water source. The pilot study was initially structured to last 124 days; however, after receiving feedback from the low-pressure membrane suppliers, the pilot study will be modified to include two runs – one with citric acid and one without it. This modification will allow the membrane system suppliers to determine if the use of citric acid can be reduced. This adjustment will add 53 additional days, bringing the total duration of the pilot study to 177 days. Additionally, Freese and Nichols will hire an independent testing laboratory to perform the water quality analysis required for the pilot study.

PRIOR ACTION/REVIEW (COUNCIL, BOARDS, COMMISSIONS)

On March 6, 2018, and June 5, 2018, City Council approved RFQ 7574 for a prequalified list of professional engineering firms (Ordinance 2018-331).

On October 22, 2024, City Council approved a contract with Freese and Nichols, Inc., in the not-to-exceed amount of \$21,000,000 (Ordinance 24-2084).

On November 17, 2025, this item will be presented to the Public Utilities Board (PUB) for consideration.

RECOMMENDATION

Award amendment No. 1 with Freese and Nichols, Inc., to extend the required pilot study for the Ray Roberts Water Treatment Plant Expansion Project for the Water Utilities Department, in a not-to-exceed amount of \$184,000, for a total amended contract amount of \$21,184,000.

PRINCIPAL PLACE OF BUSINESS

Freese and Nichols, Inc.
Denton, TX

ESTIMATED SCHEDULE OF PROJECT

The RRWTP Expansion project will be started upon approval of the design and CMAR contracts, with a projected construction completion date of Q4 2029.

FISCAL INFORMATION

These services will be funded from Water Utilities account 630576508.1360.21100. Purchase Order #209636 will be revised to include the first amendment amount of \$184,000. The total amount of this contract is \$21,184,000.

EXHIBITS

Exhibit 1: Agenda Information Sheet

Exhibit 2: Original Ordinance and Contract

Exhibit 3: Ordinance and Amendment 1

Respectfully submitted:
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Purchasing Manager

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