



City of Denton

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

AGENDA INFORMATION SHEET

DEPARTMENT: Water Utilities
ACM: Cassey Ogden
DATE: September 29, 2025

SUBJECT

Consider recommending approval of a resolution of the City of Denton, Texas, a Texas home-rule municipal corporation, adopting the City of Denton Water Master Plan; superseding all previously adopted water master plans; and declaring an effective date.

STRATEGIC ALIGNMENT

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

INFORMATION/BACKGROUND

The Water Master Plan encompasses the entire City, including its extraterritorial jurisdiction, and details the water system expansions needed to responsibly accommodate the City's accelerated growth rate. The plan also provides information that Denton Water Utilities will use to maintain and operate water infrastructure.

Specifically, the Water Master Plan and its underlying water model will serve as the basis for the planning, design, construction, and financing of water infrastructure. The scope of the plan includes,

- Surveying, identification, and mapping of existing water infrastructure.
- Modeling, validation, and calibration of existing water infrastructure.
- Projections of ultimate water flows for the city at build-out, based on the City's Comprehensive Plan; and
- Identification, mapping, cost estimates, and timing of improvements necessary to accommodate ultimate water demands and water flows in compliance with Texas Commission on Environmental Quality regulations.

The City's water distribution system is divided into five major pressure planes. The backbone of the water infrastructure in these pressure planes is primarily comprised of a combination of transmission mains (large pipes) and booster pump stations. Raw water is treated at the Ray Roberts Water Treatment Plant located on Ray Roberts Dam Road in the City of Aubrey, just south of the dam at Ray Roberts Lake, and at the Lake Lewisville Water Treatment Plant located just north of the Spencer Power Station on Spencer Road in the City of Denton. Treated water is sent from the water treatment plants through transmission mains that connect to smaller pipes that distribute the water throughout the City.

PRIOR ACTION/REVIEW (COUNCIL, BOARDS, COMMISSIONS)

September 16, 2025: Staff presented this item to City Council and received feedback.

RECOMMENDATION

Staff recommends approval of a resolution adopting the City of Denton Water Master Plan and declaring an effective date.

SUSTAINABILITY MEASURES

The Water Master Plan directly addresses projects necessary to ensure the long-term sustainability of reliable water service for the City of Denton and the sustainability of its water resources.

ESTIMATED SCHEDULE OF PROJECT

Once adopted, this project is complete.

EXHIBITS

Exhibit 1: Agenda Information Sheet

Exhibit 2: Resolution

Exhibit 3: Presentation

Respectfully submitted:
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General Manager
Water Utilities and Street Operations

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Legal point of contact: Christopher Mullins at 940-349-8114.